VIDE-V33595

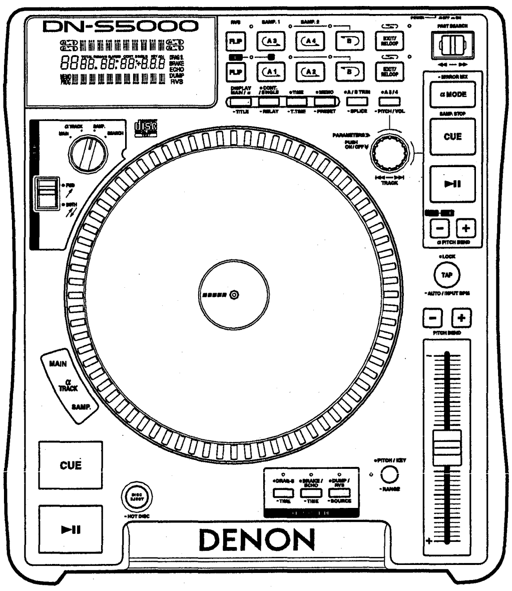
DENON

For U.S.A., Canada & Europe model

SERVICE MANUAL

MODEL DN-S5000

TABLE TOP SINGLE CD PLAYER


DN-S5000
CUE
►II
MAIN
α TRACK
SAMP.
CUE
►II
TAP
DENON

- Some illustrations using in this service manual are slightly different from the actual set.

DENON, Ltd.

16-11, YUSHIMA 3-CHOME, BUNKYOU-KU,TOKYO 113-0034 JAPAN
Telephone: 03 (3837) 5321

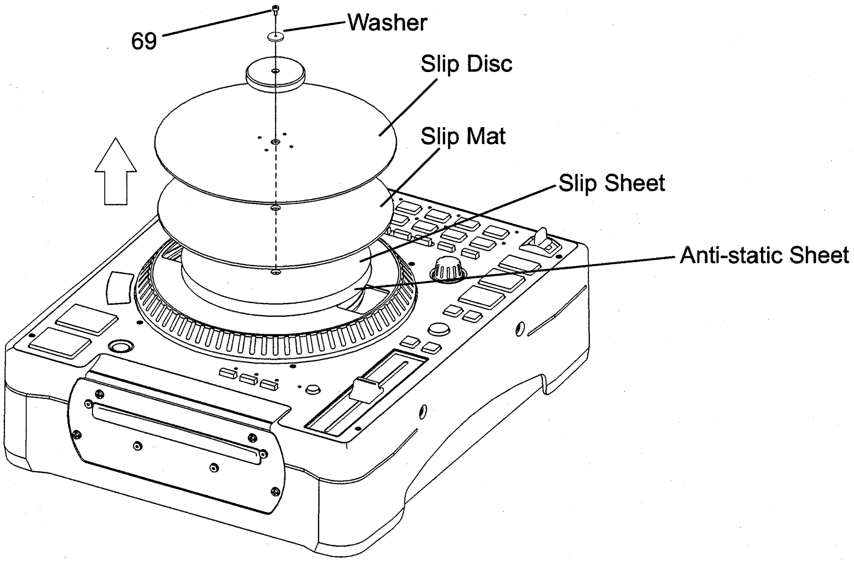
X0161 MO/CDM 0211

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

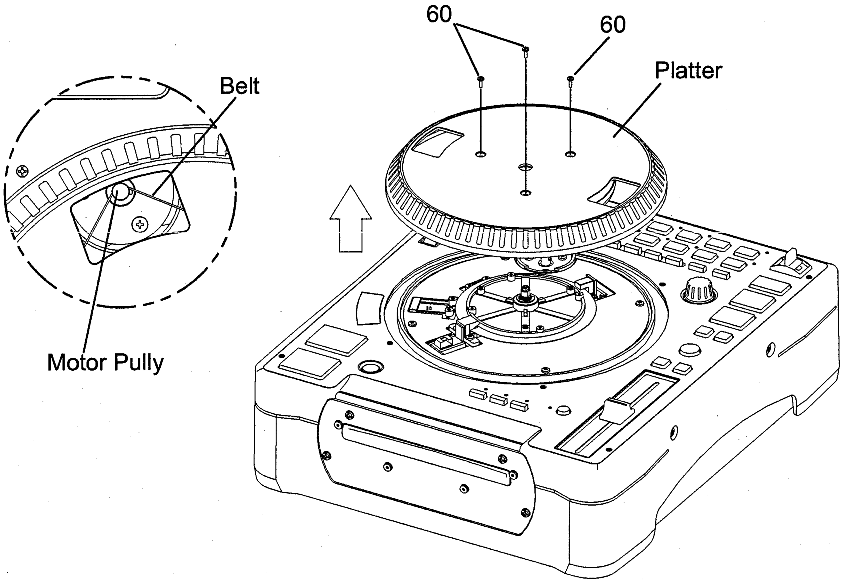
1. SLIP DISC, SLIP MAT

(1) Remove a screw 69 and pull out Slip Disc and Slip Mat.


69
Washer
Slip Disc
Slip Mat
Slip Sheet
Anti-static Sheet

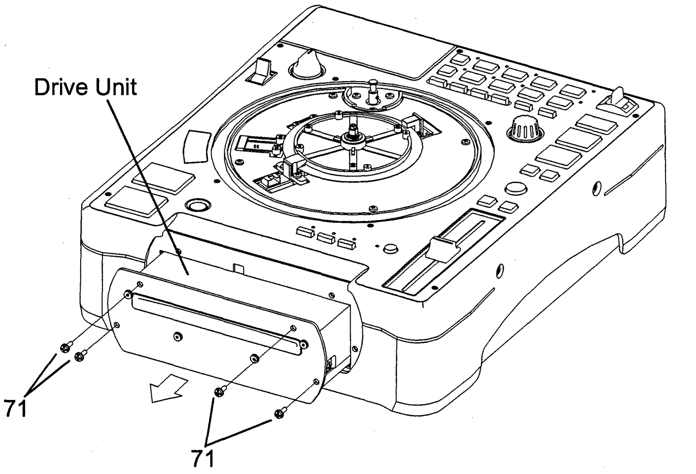
2. PLATTER

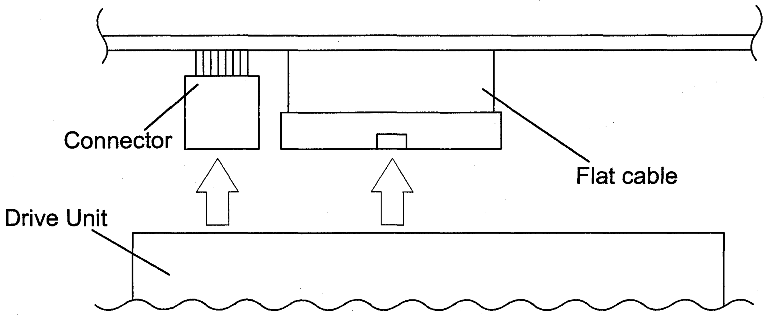
(1) Remove Belt from Motor Pully.
(2) Remove 3 screws 60 and pull out Platter.


60
60
Platter
Belt
Motor Pully

3. DRIVE UNIT

(1) Remove 4 screws 71 and pull out Drive Unit.
(2) Disconnect Flat cable and Connector.
(3) Detach Drive Unit.


Drive Unit
71
71

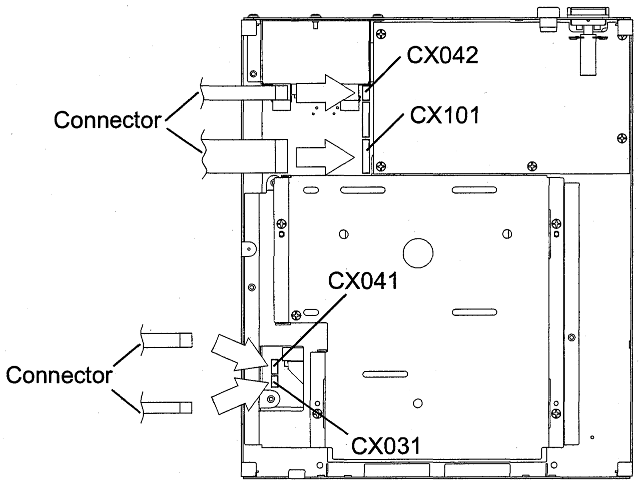

Connector
Flat cable
Drive Unit

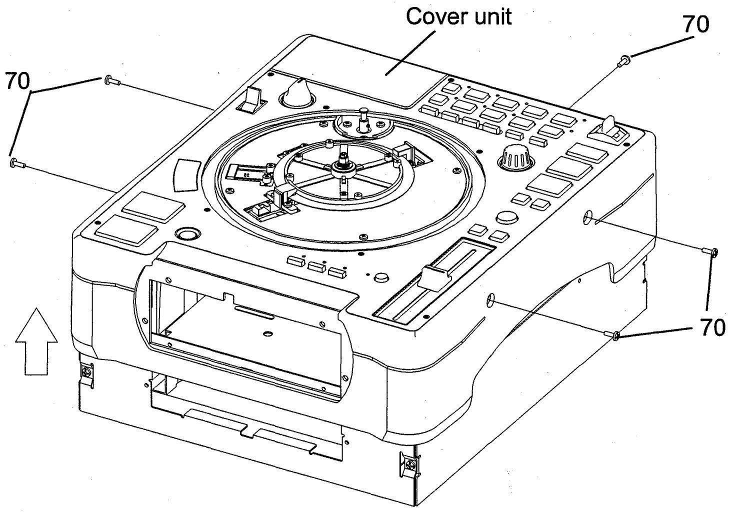
Note:

Do not pull out aslant to prevent Flat cable damage.
Do not fail to pull AC cord from wall outlet before disconnect the Flat cable and Connector.
If AC cord is remained plugged into wall outlet, power is kept supplied in the unit, which may cause danger.

4. COVER UNIT

(1) Remove 5 screws 70 and pull out Cover Unit.
(2) Disconnect Connectors.
(3) Detach Cover unit.


CX042
Connector
CX101
CX041
Connector
CX031


Cover unit
70
70
70

Note:

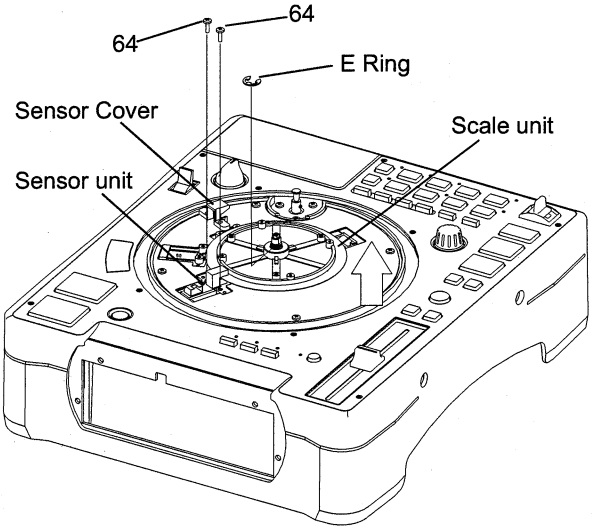
Do not fail to pull AC cord from wall outlet before disconnect Connectors.
If AC cord is remained plugged into wall outlet, power is kept supplied in the unit, which may cause danger.

5. SENSOR AND SCALE UNITS OF PLATTER

(1) Remove 2 screws 64 and pull out Sensor Cover and Sensor unit.

(2) Remove a E Ring.

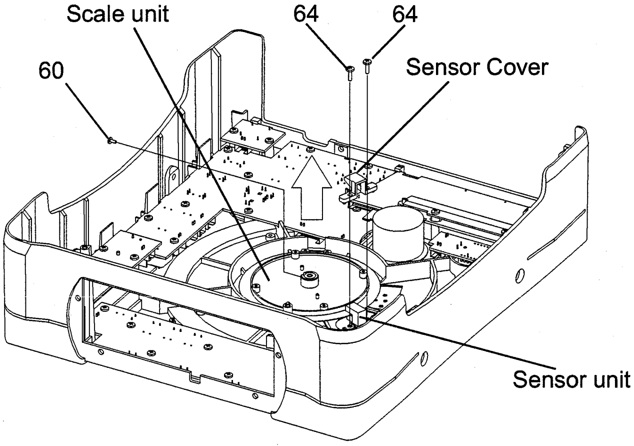
(3) Pull out Scale unit.


64
64
E Ring
Sensor Cover
Scale unit
Sensor unit

6. SENSOR AND SCALE UNITS OF SLIP DISC

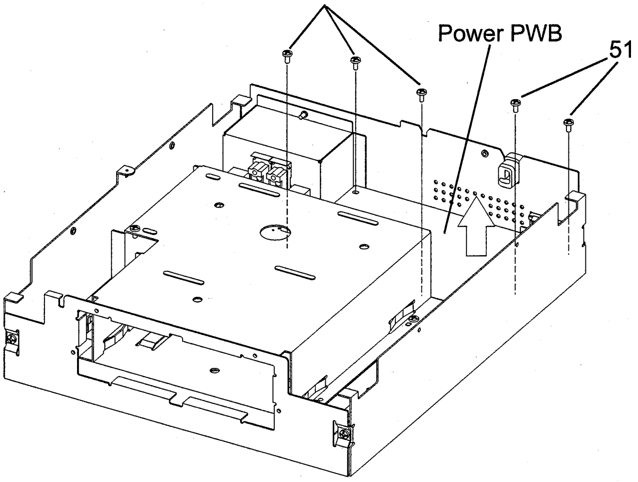
(1) Remove 2 screws 64 and pull out Sensor Cover and Sensor unit.

(2) Remove a screw 60 and pull out Scale unit.


Scale unit
64
64
60
Sensor Cover
Sensor unit

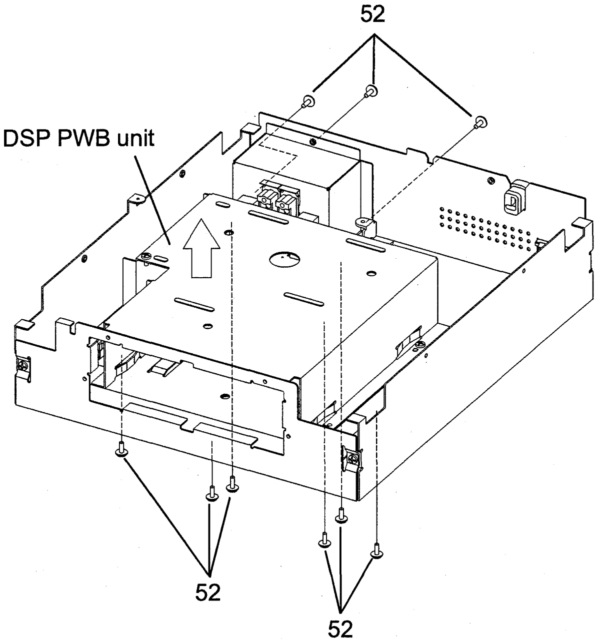
7. POWER PWB

(1) Remove 5 screw 51 and pull out Power PWB.


51
Power PWB
51

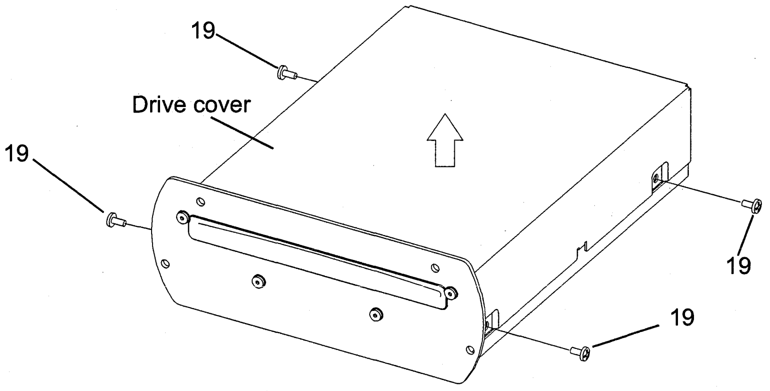
8. DSP PWB UNIT

(1) Remove 9 screws 52 and pull out DSP PWB unit


52
DSP PWB unit
52
52

9. DRIVE COVER

(1) Remove 4 screws 12 and pull out Drive cover.

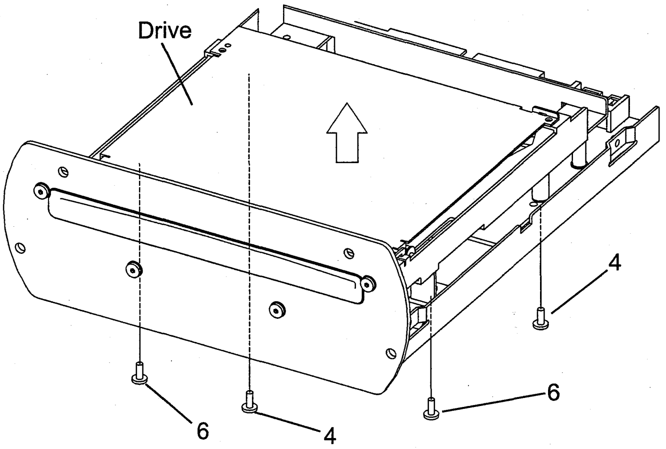

19
Drive cover
19
19
19

10. DRIVE

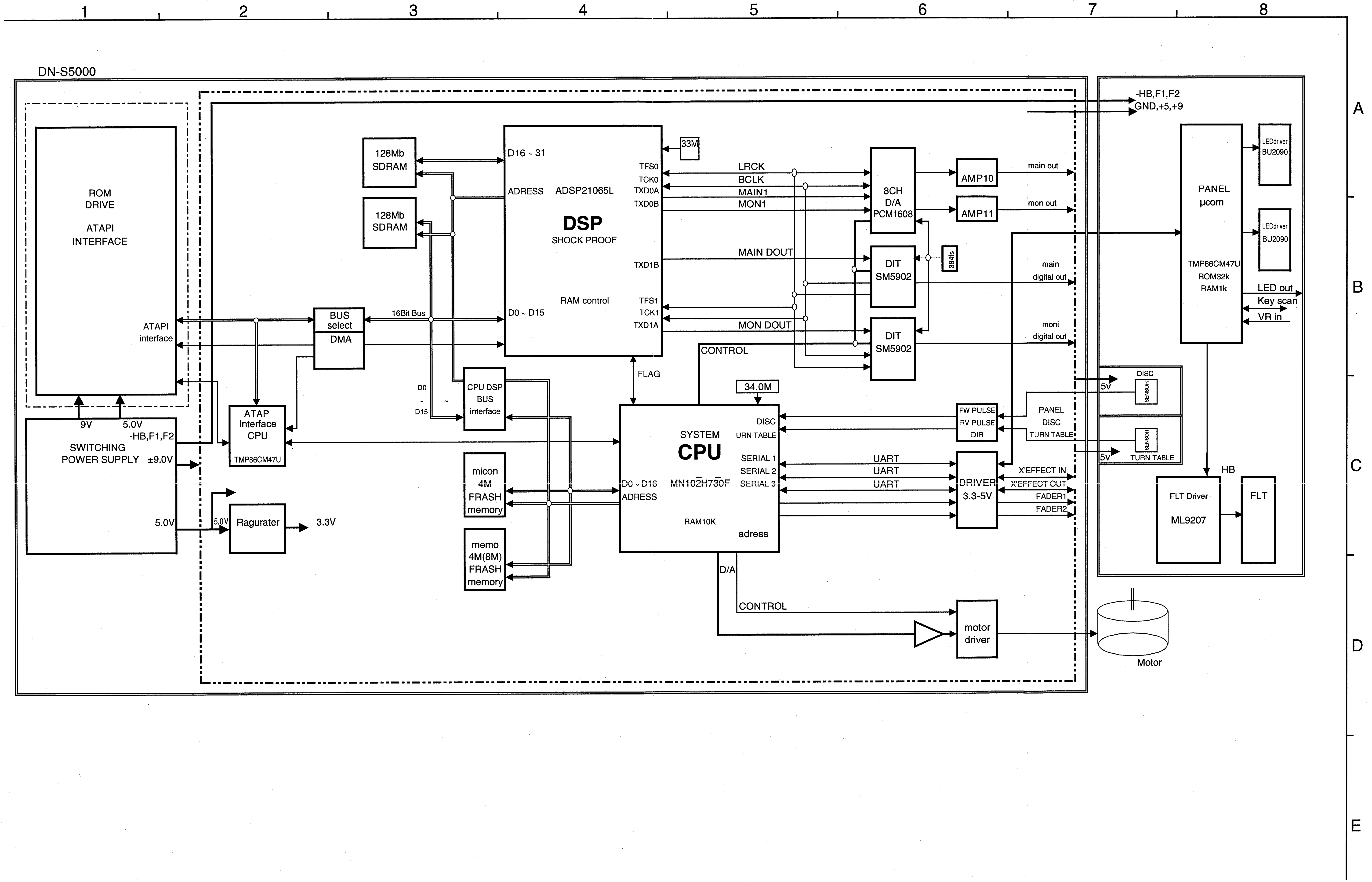
(1) Move Drive Rack in arrow direction through the Hole on the bottom chassis. Loader frame comes out.

(2) Pull up Loader panel while pulling it towards front.

(3) Remove 4 screws 6 and pull out Drive.



BLOCK DIAGRAM


1
2
3
4
5
6
7
8
A
B
C
D
E
DN-S5000
ROM
DRIVE
ATAPI
INTERFACE
ATAPI
interface
9V
5.0V
-HB,F1,F2
SWITCHING
POWER SUPPLY
±9.0V
5.0V
5.0V
Ragurater
3.3V
ATAP
Interface
CPU
TMP86CM47U
BUS
select
DMA
16Bit Bus
128Mb
SDRAM
128Mb
SDRAM
D0
~
D15
~
CPU DSP
BUS
interface
micon
4M
FRASH
memory
memo
4M(8M)
FRASH
memory
D16 ~ 31
ADRESS
ADSP21065L
DSP
SHOCK PROOF
RAM control
D0 ~ D15
TFS0
TCK0
TXD0A
TXD0B
TXD1B
TFS1
TCK1
TXD1A
33M
FLAG
LRCK
BCLK
MAIN1
MON1
MAIN DOUT
MON DOUT
CONTROL
8CH
D/A
PCM1608
DIT
SM5902
DIT
SM5902
384fs
AMP10
AMP11
main out
mon out
main
digital out
moni
digital out
34.0M
SYSTEM
CPU
MN102H730F
RAM10K
D0 ~ D16
ADRESS
DISC
URN TABLE
SERIAL 1
SERIAL 2
SERIAL 3
adress
UART
UART
UART
FW PULSE
RV PULSE
DIR
PANEL
DISC
TURN TABLE
DRIVER
3.3-5V
X'EFFECT IN
X'EFFECT OUT
FADER1
FADER2
D/A
CONTROL
motor
driver
Motor
-HB,F1,F2
GND,+5,+9
PANEL
µcom
TMP86CM47U
ROM32k
RAM1k
LEDdriver
BU2090
LEDdriver
BU2090
LED out
Key scan
VR in
DISC
5v
SENSOR
5v
SENSOR
TURN TABLE
HB
FLT Driver
ML9207
FLT

CONFIRMING THE SERVO

Required Measuring Implement

- Reference disc (TCD784 or CO-74176)

1. What is Service Program

Service program is a special program intended for confirming servo functions etc.

2. Contents of Service Program

Switch on the power while pushing the PITCH BEND + button and α CUE button at the same time. After actuating the servo program, select an aiming process number with the SELECT knob, A1 button, A2 button, or A3 button. Press the SELECT knob to execute the selected process, the process number is then displayed on the track indicator of the display. To exit from the service program, just switch off the power.

	Process No. (TRACK Indication)	Function (Character-display)	Contents
SELECT knob	01	µcom Version check (Version No.)	Check Version with JOG dial. 1. System µcom version No.: "Sys_XXXX" 2. DSP soft version No.: "Dsp_XXXX" 3. ATAPI µcom version No.: "Atapi_XXXX" 4. PANEL µcom version No.: "Panel_XXXX" 5. ROM drive mecha. µcom version No.: "Drive_XXXX"
	02	OPEN/CLOSE (Open Close)	Performs open/close each time when the SELECT knob is pushed.
	03	Drive Diagnostic (Drive_Diag)	ROM drive performs operation check when the SELECT knob is pushed, and indicates the operational result. If the disc holder open, it starts the operation check after closing. It indicates "Normal_End" if it ends normal. In case of error, ROM drive error code is displayed in the character's lower portion as "E****".
	04	Drive Data Read (Data Read)	Starts continuous playback at its maximum reading speed from the beginning of disc when the SELECT knob is pushed. It halts reading and stops if the knob is pushed again.
	05	Error Code Check (Error Data)	Turn the PLATTER to display the logging error codes in the occurred order. ("Error Data" is displayed.) 10 error logs are memorized at maximum. Kinds of Error Code, displayed Error Code Table (Appears only at Heat Run and Chucking Test function) Pressing SELECT knob enters to data erase mode. ("Err Clear?" is displayed.) If the SELECT knob is pushed again, the memorized error data are cleared.
	06	Total Running Time (Total_Time)	Total time span of servo function that counted by the hour is displayed. ("Total Time" is displayed.) The display time is less than 65535 hours. Note: No time is counted if powered down within 59 minutes. Pressing SELECT knob enters to data erase mode. ("Time Clear?" is displayed.) If the SELECT knob is pushed again, the memorized time data are cleared.
	07	Automatic Servo Adjustment call	Starts automatic servo adjustment when the SELECT knob is pushed, and after completing the adjustment, sort of the used disc is indicated. Data is selectable with the PLATTER. 1. Disc check, CD/CD-RW 2. Focus gain data 3. Focus balance data 4. Focus offset data 5. Tracking gain data 6. Tracking balance data 7. Tracking offset data 8. PreAMP Tracking Sensor Gain 9. DSP Tracking Sensor Gain 10. PI offset

	Adjustment Item	Adjustment Value indication at character portions.
1	Focus Gain	35 ~ 120
2	Focus Balance	-20 ~ +20
3	Focus Offset	-20 ~ +20
4	Tracking Gain	35 ~ 120
5	Tracking Balance	-20 ~ +20
6	Tracking Offset	-20 ~ +20

* Reference data.

3. TEST MODE

	Process No. (TRACK Indication)	Function (Character-display)	Contents
A1 button	—	Heat Run (H/R1_Normal)	Starting with the PLAY/PAUSE button, it repeats open/close of the tray and playback. All tracks are played back if the track count is less than 20. Only the first and last tracks are played back if the tracks are more than 21. When any errors, it stops and indicates error code (see Error Code Table).
A2 button	—	Chucking Test (H/R2_Tray)	Starting with the PLAY/PAUSE button, it repeats open/close of the tray, servo on, and TOC read. The display shows the number of the tray operation. When any errors, it stops and indicates error code (see Error Code Table).
A3 button	—	System check (Sys._Check)	It starts system check when the PLAY/PAUSE button is pushed, and indicates the status by performing plain operational check in the system . 1. Communication judge between the system µcom and DSP 2. DSP SDRAM write/read operation check 3. Communication judge between the system µcom and ATAPI µcom 4. Communication judge between the ATAPI µcom and ROM drive 5. ROM drive operation check 6. D/A register write/read operation check 7. DIT register write/read operation check After finishing the check, it indicates the result on the character display lower portion. When the 1. ~ 7. items are OK, their item numbers are indicated. But if there is a NG item, its item number is not indicated.
A4 button	—		Judges whether PLATTER can rotate at the specified rotating speed. The message "Platter_OK" is displayed on the character display if the rotating speed meets the specification. Otherwise, "Platter_NG" is displayed.

4. Error Code Table (Appears only at Heat Run and Chucking Test function)

Error Code	Contents
	Automatic Adjustment Error
E1 00	Unable to detect disc
E1 01	Unable to adjust tracking offset
E1 03	Unable to adjust focus fine gain
E1 04	Unable to actuate focus
E1 05	Unable to actuate tracking
E1 06	Unable to adjust tracking fine gain
E2 02	Servo down during automatic adjustment
E3 00	Unable to read TOC
E4 00	Unable to close the disc holder in the regular time
E4 01	Unable to open the disc holder in the regular time
E5 00	Slide error

Detailed error can be displayed by PLATTER when error occurs.

Error Indication				
TR	MIN	SEC	FRAM	CHARACTER
Displays the track No. in which error occurred.	Displays the time at which error occurred.			“H$\underbrace{****}_{\text{Operation count}}$ E$\underbrace{***}_{\text{Error code}}$”

5. System μcom and DSP Version Upgrade

System μcom and DSP can be upgraded in the following manner.

Version Upgrade Method

(1) Record the version upgrade software on a CD-R or CD-RW disc, only as one file with the format ISO9660 Mode-1. The file name of the supplied version upgrade software should be used as is and this disc needs to finalize.
(2) After loading the disc made in above step 1, turn off the power. Then, turn on the power while pressing the αMODE button and αPITCH BEND button. The version upgrade starts with reading data of the disc.
(3) When you start version upgrade operation, messages "Version_Up" and "System&DSP" are displayed on the character display.
Recovery positions are turned on one by one from the left end according as the upgrade operation proceeds. When this operation is completed, all recovery positions are turned on.
In case of some error or the power is turned off during the version upgrade, it may be impossible to operate at all thereafter. Changing of IC502 on GU-3482 is necessary in this case, and software writing to IC502 should be done beforehand.
(4) When the upgrade is completed, the disk is ejected and operation returns to the normal mode.
(5) File name of the upgrade software indicates version numbers.

File name T5.$\underbrace{***}_{\text{System μcom version}}$ $\underbrace{***}_{\text{DSP version}}$.BIN

6. ROM Drive (FG-5000) μcom Version Upgrade

Drive (FG-5000) μcom can be upgraded in the following manner.

Version Upgrade Method

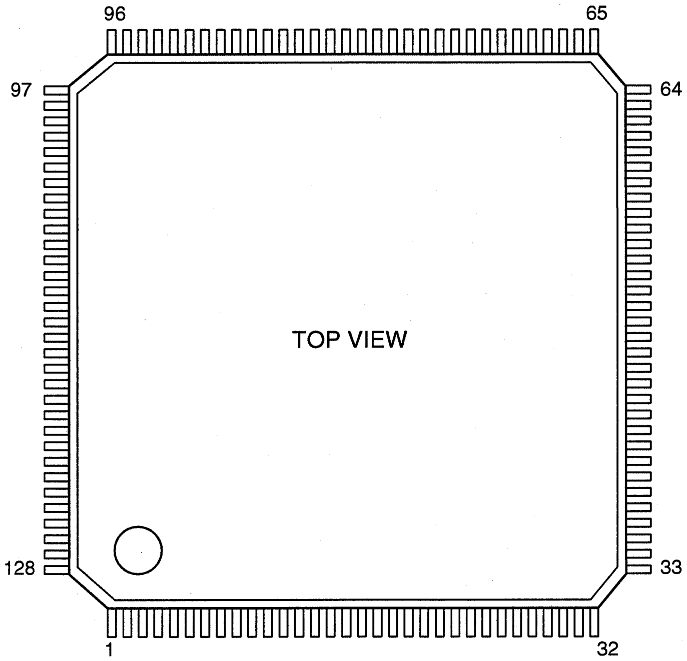
(1) Record the version upgrade software on a CD-R or CD-RW disc, only as one file with the format ISO9660 Mode-1. The file name of the supplied version upgrade software should be used as is and this disc needs to finalize.
(2) After turning on the power, load the disc made in above step 1 into the mecha. you want to upgrade the version.
(3) "Drive" and "Version UP?" are indicated in the character display. Press the CD EJECT button and remove the disc when not upgrade the version.
(4) Press the PLAY/PAUSE to start the version upgrade. "Now Loading" is indicated.
(5) When the version upgrade is finished, "Complete" is indicated and the disc EJECT.
(6) Turn off the power once and turn on again after take out the disc.
The version upgrade ends in 20~30 seconds normally. If the power turned off underway or the version upgrade ends abnormally, the drive may become malfunction. In such a case, version upgrade with PC will be needed.
(7) File name of the upgrade software indicates version number.

File name FG5K$\underbrace{****}_{\text{Version number}}$.BIN

SEMICONDUCTORS

● IC's

MN102H730F (IC501)



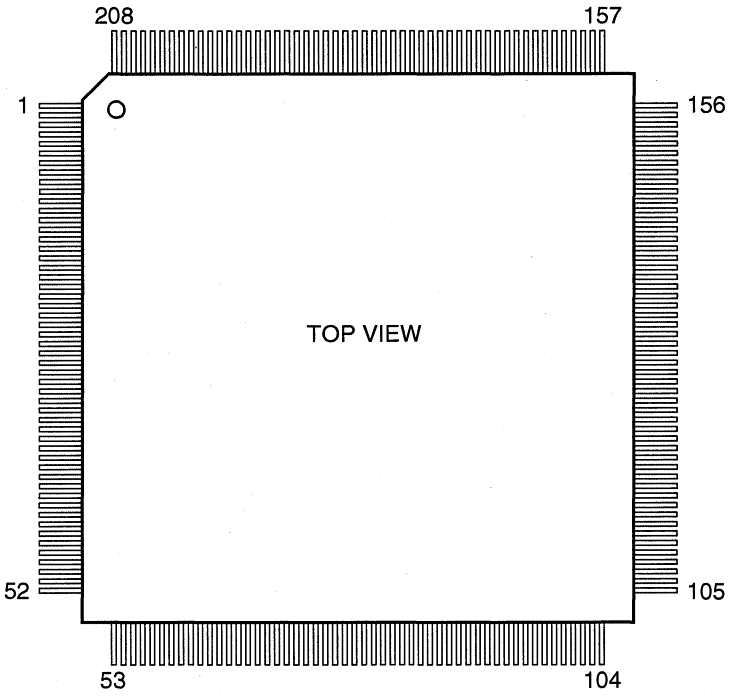
MN102H730F Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
1	CS0_	CS0_	O	—	Pu	—	—	Ext. memory chip select 0 (Flash ROM CS)
2	CS1_	CS1_	O	—	Pu	—	—	Ext. memory chip select 1 (Flash ROM for memo)
3	D00	DQ0	I/O	—	—	—	—	Ext. memory data in/output 0, DSP interface 0
4	D01	DQ1	I/O	—	—	—	—	Ext. memory data in/output 1, DSP interface 1
5	D02	DQ2	I/O	—	—	—	—	Ext. memory data in/output 2, DSP interface 2
6	D03	DQ3	I/O	—	—	—	—	Ext. memory data in/output 3, DSP interface 3
7	VDD	VDD	—	—	—	—	—	Power (+3.3V)
8	VSS	VSS	—	—	—	—	—	GND
9	D04	DQ4	I/O	—	—	—	—	Ext. memory data in/output 4, DSP interface 4
10	D05	DQ5	I/O	—	—	—	—	Ext. memory data in/output 5, DSP interface 5
11	D06	DQ6	I/O	—	—	—	—	Ext. memory data in/output 6, DSP interface 6
12	D07	DQ7	I/O	—	—	—	—	Ext. memory data in/output 7, DSP interface 7
13	D08	DQ8	I/O	—	—	—	—	Ext. memory data in/output 8, DSP interface 8
14	D09	DQ9	I/O	—	—	—	—	Ext. memory data in/output 9, DSP interface 9
15	D10	DQ10	I/O	—	—	—	—	Ext. memory data in/output 10, DSP interface 10
16	PD0,DMAACK1_	RESERVE	O	—	—	L	—	
17	PD1,DMAREQ1_	RESERVE	O	—	—	L	—	
18	D11	DQ11	I/O	—	—	—	—	Ext. memory data in/output 11, DSP interface 11
19	D12	DQ12	I/O	—	—	—	—	Ext. memory data in/output 12, DSP interface 12
20	D13	DQ13	I/O	—	—	—	—	Ext. memory data in/output 13, DSP interface 13
21	D14	DQ14	I/O	—	—	—	—	Ext. memory data in/output 14, DSP interface 14
22	D15	DQ15	I/O	—	—	—	—	Ext. memory data in/output 15, DSP interface 15
23	WORD	WORD	I	—		—		Data bus width select (H: 16bit),GND fixed
24	VDD	VDD	—	—	—	—	—	Power (+3.3V)
25	MODE	MODE	I	—	—	L	L	Processor mode, GND fixed

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
26	PC3	MUTE	O	—	Pu	H	H	Mute signal (H: Mute)
27	XI	XI	I	—	—	—	—	Oscillation input
28	XO	XO	O	—	—	—	—	Oscillation output
29	VDD	VDD	—	—	—	—	—	Power (+3.3V)
30	OSCI	OSCI	I	—	—	—	—	Oscillation input, 34.0MHz
31	OSCO	OSCO	O	—	—	—	—	Oscillation output
32	VSS	VSS	—	—	—	—	—	GND
33	P57,BOSC	TEST	I	—	Pu	H	—	P.W.B. check mode IN
34	PC5,NMI	NMI	I	—	—	—	—	Connect to Power
35	RST_	RST_	I	—	—	—	—	µcom reset
36	PC0	YMCLK	O	—	—	H	—	Clock for SM5902(DOUT)/PCM1608(D/A) data
37	P76	MDO	O	—	Pd	—	L	PCM1608(D/A) input data
38	P60,IRQ0	DTIMA	I	—	Pu	H	H	Main playback clock input
39	P61,IRQ1	DTIMB	I	—	Pu	H	H	Monitor playback clock input
40	P62,IRQ2,TM10IOA	TABLE	I	—	(Pu)	H	H	Clock pulse input for platter
41	P63,IRQ3,TM10IOA	CLK4M	I	—	—	—	—	Clock pulse input for platter
42	P64,IRQ4	ATANS_	I	—	(Pu)	—	H	ATAPI µcom serial interface
43	P65,IRQ5,TM12IOA	DISCPA	I	—	(Pu)	H	H	Clock pulse input for scratch disc
44	P66,IRQ6	DISCDIR	I	—	(Pu)	H	H	Direction pulse input for scratch disc
45	P67,IRQ7	DISCINT	I	—	(Pu)	H	H	Start pulse input for scratch disc
46	P70,TM13IOB	DISCA	I	—	—	—	—	SCRATCH for DISC pulse A count input
47	P71	YMDATA	O	—	—	H	—	SM5902(DOUT)/PCM1608(D/A) output data
48	PD2,DMAACK0_	NRES_	O	—	Pd	L	L	SM5902(DOUT)/PCM1608(D/A) reset signal
49	PD3,TM3IO	DISCPA_	I	—	—	—	—	Clock invert pulse input for scratch disc
50	VDD	VDD	—	—	—	—	—	Power (+3.3V)
51	P77	ZSENCE2	I	—	—	—	—	SM5902 µcom interface status for MONITOR
52	P72,TM14IOB	DISCPB	I	—	—	—	—	SCRATCH for DISC pulse B count input
53	P73	YMLD1_	O	—	—	H	—	SM5902(DOUT) chip select for MAIN
54	P74	YMLD2_	O	—	—	H	—	SM5902(DOUT) chip select for MONITOR
55	P75,TM12IOB	CLK4M	I	—	—	—	—	Clock pulse input for disc
56	PA0,SBI0	RXD1	I	—	(Pu)	—	H	Data receive from PANEL
57	PA1,SBO0	TXD1	O	—	Pu	H	H	Data send to PANEL (PU µcom specify)
58	PA2,SBT0	MCMD_	O	—	Pu	H	H	ATAPI µcom serial interface (PU µcom specify)
59	PA3,SBI1	X'RXDOUT	I	—	(Pd)	—	H	Data receive from X'EFFECT OUT
60	PA4,SBO1	X'TXDOUT	O	—	Pu	H	H	Data send to X'EFFECT OUT
61	PA5	ZSENCE1	I	—	—	—	—	SM5902 µcom interface status for MAIN
62	PB0,SBI2	X'RXD IN	I	—	(Pd)	—	H	Data receive from X'EFFECT IN
63	PB1,SBO2	X'TXD IN	O	—	Pu	H	H	Data send to X'EFFECT IN
64	PB2	APRES_	O	—	Pd	L	L	ATAPI µcom reset signal
65	PB3,SBI3	ATDATA	I	—	(Pu)	—	H	ATAPI µcom serial receive signal
66	PB4,SBO3	MDATA	O	—	—	H	—	ATAPI µcom serial send signal
67	PB5,SBT3	MCLK	O	—	—	H	—	ATAPI µcom serial send/receive clock
68	VDD	VDD	—	—	—	—	—	Power (+3.3V)
69	VSS	VSS	—	—	—	—	—	GND
70	AVSS	AVSS	—	—	—	—	—	Analog ref. GND for A/D conversion, GND
71	Vref	Vref	—	—	—	—	—	Analog ref. V for A/D conversion, GND
72	P80	DFLG2	I/O	—	Pu	—	H	DSP general flag 2
73	P81	DFLG1	I/O	—	Pu	—	H	DSP general flag 1
74	P82	DR_/W1	O	—	—	H	—	DSP interface send/receive select signal
75	P83	DACK_	I	—	Pu	H	H	DSP interface ACK
76	P84	DBSY_	I	—	Pu	H	H	DSP interface busy signal
77	P85	DFLG0	I/O	—	Pu	—	H	DSP general flag 0
78	P86	DREQ_	O	—	Pu	H	H	DSP interface request signal
79	P87	FPLAY1	I	—	(Pu)	H	H	Main fader start PLAY input
80	PD4	FCUE1	I	—	(Pu)	H	H	Main fader start CUE input
81	PD5	FPLAY2	I	—	(Pu)	H	H	Monitor fader start PLAY input
82	P90	FCUE2	I	—	(Pu)	H	H	Monitor fader start CUE input
83	P91	RESERVE	O	—	—	L	—	
84	P92	PNLRST	—	—	Pd	L	L	Panel µcom reset signal (L:Reset)
85	P93	APOWER	O	—	Pd	L	L	Analog output voltage ON/OFF (L:OFF)
86	Vref+	Vref+	—	—	—	—	—	Analog ref. V for A/D conversion, +3.3V
87	AVDD	AVDD	—	—	—	—	—	Power (+3.3V)

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
88	P94	MCNT0	O	—	Pu	L	L	Motor control signal 0
89	P95	MCNT1	O	—	Pu	L	L	Motor control signal 1
90	P96,DAC2	MCNTDA	O	—	Pu	L	L	Motor rotation speed control signal A/D 0
91	P97,DAC3	RESERVE	O	—	—	H	—	
92	BREQ_	BREQ_	I	—	(Pu)	H	H	Bus request signal
93	BRACK_	BRACK_	O	—	Pu	H	H	Bus request accept signal
94	WEL_	WE_	O	—	Pu	—	H	Ext. memory write enable (Lower 8bit)
95	P51	RESERVE	O	—	—	H	—	
96	RE_	RE_	O	—	Pu	—	H	Ext. memory read enable
97	CS2_	CS2_	O	—	Pu	—	H	Ext. memory chip select 2 (DSP1 interface)
98	VDD	VDD	—	—	—	—	—	Power (+3.3V)
99	VSS	VSS	—	—	—	—	—	GND
100	P54, BSTRE	ML	O	—	—	H	—	PCM1608 (D/A) chip select
101	P55, WR_	RESERVE	O	—	—	H	—	
102	CS3_	CS3_	O	—	—	—	—	Not used
103	A00	A00	O	—	—	—	—	Ext. memory address bus 0
104	A01	A01	O	—	—	—	—	Ext. memory address bus 1
105	A02	A02	O	—	—	—	—	Ext. memory address bus 2
106	A03	A03	O	—	—	—	—	Ext. memory address bus 3
107	A04	A04	O	—	—	—	—	Ext. memory address bus 4
108	A05	A05	O	—	—	—	—	Ext. memory address bus 5
109	A06	A06	O	—	—	—	—	Ext. memory address bus 6
110	A07	A07	O	—	—	—	—	Ext. memory address bus 7
111	A08	A08	O	—	—	—	—	Ext. memory address bus 8
112	PD6	RESERVE	O	—	—	L	—	
113	PD7,TM7IO	DISCPB_	I	—	—	—	—	
114	A09	A09	O	—	—	—	—	Ext. memory address bus 9
115	A10	A10	O	—	—	—	—	Ext. memory address bus 10
116	A11	A11	O	—	—	—	—	Ext. memory address bus 11
117	A12	A12	O	—	—	—	—	Ext. memory address bus 12
118	A13	A13	O	—	—	—	—	Ext. memory address bus 13
119	VDD	VDD	—	—	—	—	—	Power (+3.3V)
120	PC4	RESERVE	O	—	—	L	—	
121	A14	A14	O	—	—	—	—	Ext. memory address bus 14
122	A15	A15	O	—	—	—	—	Ext. memory address bus 15
123	A16	A16	O	—	—	—	—	Ext. memory address bus 16
124	A17	A17	O	—	Pu	—	—	Ext. memory address bus 17
125	A18	A18	O	—	Pu	—	—	Ext. memory address bus 18
126	A19	A19	O	—	Pu	—	—	Ext. memory address bus 19
127	A20	A20	O	—	Pu	—	—	Ext. memory address bus 20
128	A21	A21	O	—	Pu	—	—	Ext. memory address bus 21

ADSP-21065L (IC401)



ADSP-21065L Terminal Function

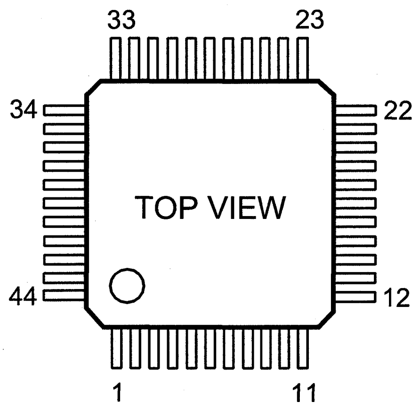
Pin No.	Port Name	Symbol (IC301)	Symbol (IC401)	I/O	DET	Ext	Ini	Res	Function
1	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
2	RFS0	YLRCK	YLRCK	I	—	IPu	—	H	Receive frame sync (LRCK) signal (Serial port IN 0)
3	GND	GND	GND	—	—	—	—	—	GND
4	RCLK0	YBCK	YBCK	I	—	—	—	—	Receive frame sync (BCK) signal (Serial port IN 0)
5	DR0A	ADDATA	ADDATA	I	—	IPu	—	H	Data receive A (serial port IN 0)
6	DR0B			I	—	IPu	—	H	Data receive B (serial port IN 0)
7	TFS0	YLRCK	YLRCK	I	—	IPu	—	H	Send frame sync (LRCK) signal (Serial port OUT 0)
8	TCLK0	YBCK	YBCK	I	—	—	—	—	Send frame sync (BCK) signal (Serial port OUT 0)
9	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
10	GND	GND	GND	—	—	—	—	—	GND
11	DT0A	MOUT1	MOUT2	O	—	IPu	—	H	Data send A (Serial port OUT 0)
12	DTOB	DOUT1	DOUT2	O	—	IPu	—	H	Data send B (Serial port OUT 0)
13	RFS1	LRCK1	LRCK2	I	—	IPu	—	H	Receive frame sync (LRCK) signal (Serial port IN 1)
14	GND	GND	GND	—	—	—	—	—	GND
15	RCLK1	BCK1	BCK2	I	—	—	L	—	Receive frame sync (BCK) signal (Serial port IN 1)
16	DR1A	SAMP2	SAMP1	I	—	IPu	—	H	Data receive A (serial port IN 1)
17	DR1B			I	—	IPu	—	H	Data receive B (serial port IN 1)
18	TFS1	LRCK2	LRCK1	I/O	—	IPu	—	H	Send frame sync (LRCK) signal (Serial port OUT 1)
19	TCLK1	BCK2	BCK1	I/O	—	—	—	—	Send frame sync (BCK) signal (Serial port OUT 1)
20	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
21	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
22	DT1A	SOUT1	SOUT2	O	—	IPu	—	H	Data send A (Serial port OUT 1)
23	DT1B	SAMP1	SAMP2	O	—	IPu	—	H	Data send B (Serial port OUT 1)
24	PWM_EVENT1			I/O	—	Pd	—	L	PWM1 output
25	GND	GND	GND	—	—	—	—	—	GND
26	PWM_EVENT0			I/O	—	Pd	—	L	PWM0 output
27	BR1_			I	—	Pu	—	H	Multi-processing bus request 1
28	BR2_			I	—	Pu	—	H	Multi-processing bus request 1
29	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
30	CLKIN			I	—	—	—	—	Clock input
31	XTAL_			O	—	—	—	—	X'tal oscillator pin
32	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)

Pin No.	Port Name	Symbol (IC301)	Symbol (IC401)	I/O	DET	Ext	Ini	Res	Function
33	GND	GND	GND	—	—	—	—	—	GND
34	SDCLK1			O	—	Pd	—	L	SDRAM clock enable 1
35	GND	GND	GND	—	—	—	—	—	GND
36	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
37	SDCLK0			I/O	—	—	—	—	SDRAM clock enable 0
38	DMAR1_			I	—	Pu	H	H	DMA request 1
39	DMAR2_			I	—	Pu	H	H	DMA request 2
40	HBR_			I	—	Pu	—	H	Host bus request (BOOT)
41	GND	GND	GND	—	—	—	—	—	GND
42	RAS_			I/O	—	Pu	H	H	SDRAM row access strobe
43	CAS_			I/O	—	Pu	H	H	SDRAM column access strobe
44	SDWE_			I/O	—	Pu	H	H	SDRAM write enable
45	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
46	DQM			O	—	—	—	—	SDRAM data mask
47	SDCKE			I/O	—	—	H	—	SDRAM clock enable
48	SDA10			O	—	Pd	L	L	SDRAM A10
49	GND	GND	GND	—	—	—	—	—	GND
50	DMAG1_			O	—	—	H	—	DMA ground 1
51	DMAG2_			O	—	—	H	—	DMA ground 2
52	HBG_			O	—	—	H	—	Host bus ground (BOOT)
53	BMSTR			O	—	—	H	—	Bus master output (H out)
54	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
55	CS_			I	—	—	L	L	Chip select (BOOT)
56	SBTS_			I	—	Pu	H	H	Extend bus three state
57	GND	GND	GND	—	—	—	—	—	GND
58	WR_			I/O	—	—	—	—	Memory write strobe
59	RD_			I/O	—	—	—	—	Memory read strobe
60	GND	GND	GND	—	—	—	—	—	GND
61	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
62	GND	GND	GND	—	—	—	—	—	GND
63	REDY			O	—	—	—	—	Host bus ACK
64	SW_			I/O	—	—	—	—	Sync type write select
65	CPA_			I/O	—	—	—	—	Core priority access
66	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
67	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
68	GND	GND	GND	—	—	—	—	—	GND
69	ACK			I/O	—	—	—	—	Memory ACK
70	MS0_			I/O	—	Pu	H	H	Memory select 0
71	MS1_			I/O	—	—	—	—	Memory select 1
72	GND	GND	GND	—	—	—	—	—	GND
73	GND	GND	GND	—	—	—	—	—	GND
74	MS2_			I/O	—	—	—	—	Memory select 2
75	MS3_			I/O	—	—	—	—	Memory select 3
76	FLAG11	DMABSY1	DMABSY2	O	—	Pu	—	H	General flag 11 (In DMA flag L: DMA)
77	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
78	FLAG10	SAMPCOP	SAMPCOPY	I/O	—	Pu	—	H	General flag 10 (In SAMPLER copy flag)
79	FLAG9	JOGB1	JOGB2	I	—	—	—	—	General flag 9 (JOG turning direction detect signal B)
80	FLAG8	JOGA1	JOGA2	I	—	—	—	—	General flag 8 (JOG turning direction detect signal A)
81	GND	GND	GND	—	—	—	—	—	GND
82	DATA0			I/O	—	—	—	—	Ext. bus data 0
83	DATA1			I/O	—	—	—	—	Ext. bus data 1
84	DATA2			I/O	—	—	—	—	Ext. bus data 2
85	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
86	DATA3			I/O	—	—	—	—	Ext. bus data 3
87	DATA4			I/O	—	—	—	—	Ext. bus data 4
88	DATA5			I/O	—	—	—	—	Ext. bus data 5
89	GND	GND	GND	—	—	—	—	—	GND
90	DATA6			I/O	—	—	—	—	Ext. bus data 6
91	DATA7			I/O	—	—	—	—	Ext. bus data 7
92	DATA8			I/O	—	—	—	—	Ext. bus data 8
93	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
94	GND	GND	GND	—	—	—	—	—	GND

Pin No.	Port Name	Symbol (IC301)	Symbol (IC401)	I/O	DET	Ext	Ini	Res	Function
95	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
96	DATA9			I/O	—	—	—	—	Ext. bus data 9
97	DATA10			I/O	—	—	—	—	Ext. bus data 10
98	DATA11			I/O	—	—	—	—	Ext. bus data 11
99	GND	GND	GND	—	—	—	—	—	GND
100	DATA12			I/O	—	—	—	—	Ext. bus data 12
101	DATA13			I/O	—	—	—	—	Ext. bus data 13
102	NC			—	—	—	—	—	NC
103	NC			—	—	—	—	—	NC
104	DATA14			I/O	—	—	—	—	Ext. bus data 14
105	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
106	GND	GND	GND	—	—	—	—	—	GND
107	DATA15			I/O	—	—	—	—	Ext. bus data 15
108	DATA16			I/O	—	—	—	—	Ext. bus data 16
109	DATA17			I/O	—	—	—	—	Ext. bus data 17
110	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
111	DATA18			I/O	—	—	—	—	Ext. bus data 18
112	DATA19			I/O	—	—	—	—	Ext. bus data 19
113	DATA20			I/O	—	—	—	—	Ext. bus data 20
114	GND	GND	GND	—	—	—	—	—	GND
115	NC			—	—	—	—	—	NC
116	DATA21			I/O	—	—	—	—	Ext. bus data 21
117	DATA22			I/O	—	—	—	—	Ext. bus data 22
118	DATA23			I/O	—	—	—	—	Ext. bus data 23
119	GND	GND	GND	—	—	—	—	—	GND
120	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
121	DATA24			I/O	—	—	—	—	Ext. bus data 24
122	DATA25			I/O	—	—	—	—	Ext. bus data 25
123	DATA26			I/O	—	—	—	—	Ext. bus data 26
124	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
125	GND	GND	GND	—	—	—	—	—	GND
126	DATA27			I/O	—	—	—	—	Ext. bus data 27
127	DATA28			I/O	—	—	—	—	Ext. bus data 28
128	DATA29			I/O	—	—	—	—	Ext. bus data 29
129	GND	GND	GND	—	—	—	—	—	GND
130	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
131	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
132	DATA30			I/O	—	—	—	—	Ext. bus data 30
133	DATA31			I/O	—	—	—	—	Ext. bus data 31
134	FLAG7	DFLG12	DFLG22	I/O	—	Pu	—	H	General flag 7 (RESERVE)
135	GND	GND	GND	—	—	—	—	—	GND
136	FLAG6	DFLG11	DFLG21	I/O	—	Pu	—	H	General flag 6 (RESERVE)
137	FLAG5	DTIMB1	DTIMB2	O	—	—	—	—	General flag 5 (Pulse output for generating monitor play time)
138	FLAG4	DTIMA1	DTIMA2	O	—	—	—	—	General flag 4 (Pulse output for generating main play time)
139	GND	GND	GND	—	—	—	—	—	GND
140	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
141	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
142	NC			—	—	—	—	—	NC
143	ID1			I	—	—	L	L	Multi-processing ID1 (Single processor: 0)
144	ID0			I	—	—	L	L	Multi-processing ID2 (Single processor: 0)
145	EMU_	EMU1_	EMU2_	O	—	—	—	—	Emulation status
146	TD0	TD01	TD02	O	—	—	—	—	Test data output (JTAG)
147	TRST_	TRST1_	TRST2_	I	—	IPu	—	H	Test reset (JTAG)
148	TDI	TDI1	TDI2	I	—	Pd	—	L	Test data input (JTAG)
149	TMS	TMS1	TMS2	I	—	IPu	—	H	Test mode select (JTAG)
150	GND	GND	GND	—	—	—	—	—	GND
151	TCK	TCK1	TCK2	I	—	Pu	—	H	Test clock (JTAG)
152	BSEL			I	—	—	H	H	EPROM boot select (Boot by EPROM: 1)
153	BMS_	BMS1_	BMS2_	I	—	—	H	H	Boot memory select (Host processor boot: 1)
154	GND	GND	GND	—	—	—	—	—	GND
155	GND	GND	GND	—	—	—	—	—	GND
156	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)

Pin No.	Port Name	Symbol (IC301)	Symbol (IC401)	I/O	DET	Ext	Ini	Res	Function
157	RESET_	DRES_	DRES_	I	—	—	H	L	DSP reset signal
158	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
159	GND	GND	GND	—	—	—	—	—	GND
160	ADDR23			I/O	—	—	—	—	Ext. bus address 23
161	ADDR22			I/O	—	—	—	—	Ext. bus address 22
162	ADDR21			I/O	—	—	—	—	Ext. bus address 21
163	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
164	ADDR20			I/O	—	—	—	—	Ext. bus address 20
165	ADDR19			I/O	—	—	—	—	Ext. bus address 19
166	ADDR18			I/O	—	—	—	—	Ext. bus address 18
167	GND	GND	GND	—	—	—	—	—	GND
168	GND	GND	GND	—	—	—	—	—	GND
169	ADDR17			I/O	—	—	—	—	Ext. bus address 17
170	ADDR16			I/O	—	—	—	—	Ext. bus address 16
171	ADDR15			I/O	—	—	—	—	Ext. bus address 15
172	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
173	ADDR14			I/O	—	—	—	—	Ext. bus address 14
174	ADDR13			I/O	—	—	—	—	Ext. bus address 13
175	ADDR12			I/O	—	—	—	—	Ext. bus address 12
176	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
177	GND	GND	GND	—	—	—	—	—	GND
178	ADDR11			I/O	—	—	—	—	Ext. bus address 11
179	ADDR10			I/O	—	—	—	—	Ext. bus address 10 (SDRAM: Connects SDA10)
180	ADDR9			I/O	—	—	—	—	Ext. bus address 9
181	GND	GND	GND	—	—	—	—	—	GND
182	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
183	ADDR8			I/O	—	—	—	—	Ext. bus address 8
184	ADDR7			I/O	—	—	—	—	Ext. bus address 7
185	ADDR6			I/O	—	—	—	—	Ext. bus address 6
186	GND	GND	GND	—	—	—	—	—	GND
187	GND	GND	GND	—	—	—	—	—	GND
188	ADDR5			I/O	—	—	—	—	Ext. bus address 5
189	ADDR4			I/O	—	—	—	—	Ext. bus address 4
190	ADDR3			I/O	—	—	—	—	Ext. bus address 3
191	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
192	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
193	ADDR2			I/O	—	—	—	—	Ext. bus address 2
194	ADDR1			I/O	—	—	—	—	Ext. bus address 1
195	ADDR0			I/O	—	—	—	—	Ext. bus address 0
196	GND	GND	GND	—	—	—	—	—	GND
197	FLAG0	DR_/W1	DR_/W2	I/O	—	—	—	—	General flag 0 (Command read write select)
198	FLAG1	DACK1_	DACK2_	I/O	—	—	—	—	General flag 1
199	FLAG2	DBSY1	DBSY2	I/O	—	—	—	—	General flag 2
200	VDD	VDD	VDD	—	—	—	—	—	Power (+3.3V)
201	FLAG3	DFLG10	DFLG20	I/O	—	Pu	—	H	General flag 3 (RESERVE)
202	NC			—	—	—	—	—	—
203	NC			—	—	—	—	—	—
204	GND	GND	GND	—	—	—	—	—	GND
205	IRQ0_	DREQ1	DREQ2	I	—	Pu	—	H	Interrupt request input 0 (SYS mcom interface)
206	IRQ1_	DREQ1_	DREQ2_	I	—	Pu	—	L	Interrupt request input 1 (SYS mcom interface)
207	IRQ2_	JOGINT1	JOGINT2	I	—	—	—	—	Interrupt request input 2 (JOG turning speed detect signal)
208	NC			—	—	—	—	—	NC

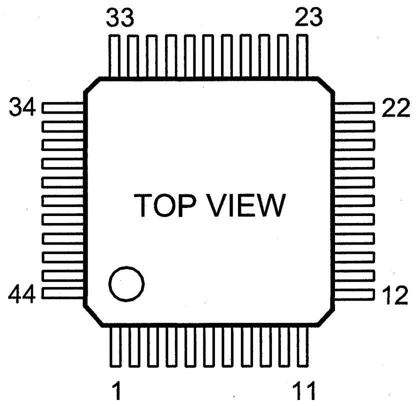
TMP86CM47U(IC151)



TMP86CM47U Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
1	VSS	VSS	—	—	—	—	—	GND (0V)
2	XIN	XIN	I	—	—	—	—	Oscillation input 16.0MHz
3	XOUT	XOUT	O	—	—	—	—	Oscillation output
4	TEST	TEST	I	—	—	—	—	Fixed to L
5	VDD	VDD	—	—	—	—	—	Power (+5.0V)
6	P21	LED AT	O	—	Pu	L	H	BU2090 data (1&2)
7	P22	LECLK1	O	—	Pu	H	H	Clock signal 1 for BU2090 data output
8	RESET_	RST_	I	—	—	—	—	μcom reset
9	P20 (LED)	LED4	O	—	—	H	—	LED4 ON/OFF (L: ON)
10	P00 (INT0)	TRSB	I	—	Pu	—	H	Track select encorder B input
11	P01	αBEND_	O	—	Pu	H	—	αBEND button
12	P02, (RXD)	RXD	I	—	Pu	—	H	Data receive from system μcom
13	P03, (TXD)	TXD	O	—	Pu	H	H	Data send to system μcom
14	P04 (SO)	FLDA	O	—	Pu	H	H	ML9207 data signal
15	P05	FLCS_	O	—	Pu	H	H	ML9207 latch signal
16	P06 (SCK)	FLCP_	O	—	Pu	H	H	Clock signal for ML9207 data output
17	P07	LECLK2	O	—	Pu	L	H	Clock signal 2 for BU2090 data output
18	P17	KIN5	I	—	Pu	—	H	Key scan input 5
19	P16	KIN4	I	—	Pu	—	H	Key scan input 4
20	P15	KIN3	I	—	Pu	—	H	Key scan input 3
21	P14	KIN2	I	—	Pu	—	H	Key scan input 2
22	P13	KIN1	I	—	Pu	—	H	Key scan input 1
23	P12	KIN0	I	—	Pu	—	H	Key scan input 0
24	P11 (INT1)	TRSA	I	Ed	Pu	—	H	Track select encorder A input
25	P10	FLRES_	O	—	Pd	L	L	ML9207 reset signal
26	P30 (AIN0)	PITCH	I	—	—	—	—	Pitch VR signal
27	P31 (AIN1)	SCRSEL	I	—	Pu	—	H	A/D SCRATCH source select key input
28	P32 (AIN2)	SCRDIR	I	—	Pu	—	H	A/D SCRATCH DIR select key input
29	P33 (AIN3)	SEARCH	I	—	Pu	—	H	SEARCH VR A/D input O
30	P34 (AIN4)	SCAN	I	—	Pu	—	H	SCAN VR A/D input O
31	P35 (AIN5)	KINAD	I	—	Pu	—	H	key A/D input
32	P36	PLAY	I	—	Pu	—	H	PLAY/PAUSE key input
33	P37	CUE	I	—	Pu	—	H	CUE key input
34	VAREF	VAREF	I	—	—	—	—	Power (+5.0V), Analog ref.V for A/D conversion
35	AVDD	AVDD	I	—	—	—	—	Power (+5.0V), Power for A/D conversion circuit only
36	AVSS	AVSS	I	—	—	—	—	GND (0V), Analog GND for A/D conversion
37	P40 (LED)	KOUT0	O	—	Pu	H	H	Key scan output 0/LED line select 0 (L: select)
38	P41 (LED)	KOUT1	O	—	Pu	H	H	Key scan output 1/LED line select 1 (L: select)
39	P42 (LED)	KOUT2	I/O	—	Pu	H	H	Key scan output 2 (Except scaning: IN)
40	P43 (LED)	KOUT3	I/O	—	Pu	H	H	Key scan output 3 (Except scaning: IN)
41	P44 (LED)	LED0	O	—	—	H	—	LED ON/OFF 0 (L: ON)
42	P45 (LED)	LED1	O	—	—	H	—	LED ON/OFF 1
43	P46 (LED)	LED2	O	—	—	H	—	LED ON/OFF 2
44	P47 (LED)	LED3	O	—	—	H	—	LED ON/OFF 3

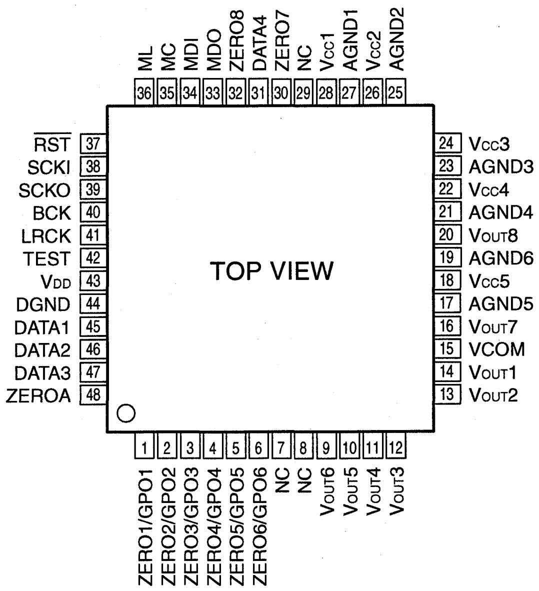
SM5902AF (IC651, 652)

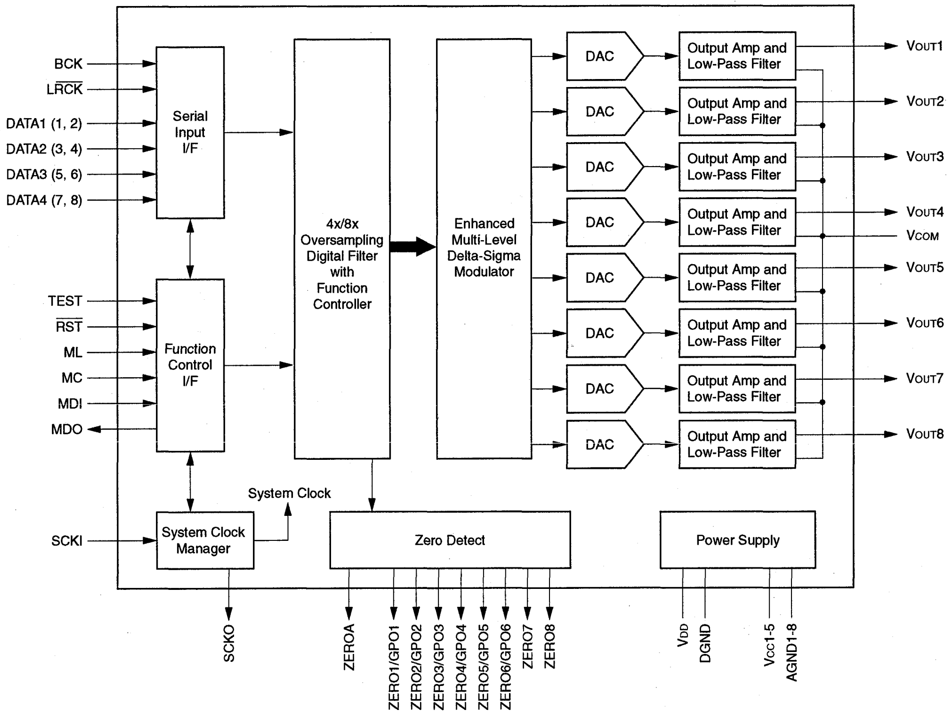


SM5902AF Terminal Function

Pin No.	Symbol	I/O	Function	Setting	
				H	L
1	VDD2	—	VDD power supply terminal.		
2	UC1	IP/O	Microcomputer interface extended I/O 1. Not Used (OPEN)		
3	UC2	IP/O	Microcomputer interface extended I/O 2. Not Used (OPEN)		
4	UC3	IP/O	Microcomputer interface extended I/O 3. Not Used (OPEN)		
5	UC4	IP/O	Microcomputer interface extended I/O 4. Not Used (OPEN)		
6	UC5	IP/O	Microcomputer interface extended I/O 5. Not Used (OPEN)		
7	DIT	O	Digital audio interface terminal.		
8	NTEST	IP	Test terminal.		Test
9	CLK	I	16.9344 MHz clock input.		
10	Vss	—	Ground terminal.		
11	YSRDATA	I	Audio serial input data.		
12	YLRCK	I	Audio serial input LR clock.	Lch	Rch
13	YSCK	I	Audio serial input bit clock.		
14	ZSCK	O	Audio serial output bit clock.		
15	ZLRCK	O	Audio serial output LR clock.	Lch	Rch
16	ZSRDATA	O	Audio serial output data.		
17	YFLAG	I	RAM overflow flag for signal processing IC.		Over
18	YFCLK	I	X'tal system frame clock.		
19	YBLKCK	I	Sub-code block clock signal.		
20	NRESET	I	System reset terminal.		Reset
21	ZSENSE	O	Microcomputer interface status output.		
22	VDD1	—	VDD power supply terminal.		
23	YDMUTE	I	Forcible mute terminal.	Mute	
24	YMLD	I	Microcomputer interface latch clock.		
25	YMDATA	I	Microcomputer interface serial data.		
26	YMCLK	I	Microcomputer interface shift clock.		
27	A10	O	DRAM address 10.		
28	NCAS	O	DRAM CAS control.		
29	D2	I/O	DRAM data input/output 2.		
30	D3	I/O	DRAM data input/output 3.		
31	D0	I/O	DRAM data input/output 0.		
32	D1	I/O	DRAM data input/output 1.		
33	NWE	O	DRAM WE control.		
34	NRAS	O	DRAM RAS control.		
35	A9	O	DRAM address 9.		
36	A8	O	DRAM address 8.		
37	A7	O	DRAM address 7.		
38	A6	O	DRAM address 6.		
39	A5	O	DRAM address 5.		
40	A4	O	DRAM address 4.		
41	A0	O	DRAM address 0.		
42	A1	O	DRAM address 1.		
43	A2	O	DRAM address 2.		
44	A3	O	DRAM address 3.		

PCM1608Y (IC705)


TOP VIEW
36 ML
35 MC
34 MDI
33 MDO
32 ZERO8
31 DATA4
30 ZERO7
29 NC
28 VCC1
27 AGND1
26 VCC2
25 AGND2
37 RST
38 SCKI
39 SCKO
40 BCK
41 LRCK
42 TEST
43 VDD
44 DGND
45 DATA1
46 DATA2
47 DATA3
48 ZEROA
24 VCC3
23 AGND3
22 VCC4
21 AGND4
20 VOUT8
19 AGND6
18 VCC5
17 AGND5
16 VOUT7
15 VCOM
14 VOUT1
13 VOUT2
1 ZERO1/GPO1
2 ZERO2/GPO2
3 ZERO3/GPO3
4 ZERO4/GPO4
5 ZERO5/GPO5
6 ZERO6/GPO6
7 NC
8 NC
9 VOUT6
10 VOUT5
11 VOUT4
12 VOUT3


BCK
LRCK
DATA1 (1, 2)
DATA2 (3, 4)
DATA3 (5, 6)
DATA4 (7, 8)
Serial Input I/F
TEST
RST
ML
MC
MDI
MDO
Function Control I/F
4x/8x Oversampling Digital Filter with Function Controller
Enhanced Multi-Level Delta-Sigma Modulator
DAC
Output Amp and Low-Pass Filter
VOUT1
VOUT2
VOUT3
VOUT4
VCOM
VOUT5
VOUT6
VOUT7
VOUT8
SCKI
System Clock Manager
System Clock
Zero Detect
Power Supply
SCKO
ZEROA
ZERO1/GPO1
ZERO2/GPO2
ZERO3/GPO3
ZERO4/GPO4
ZERO5/GPO5
ZERO6/GPO6
ZERO7
ZERO8
VDD
DGND
VCC1-5
AGND1-8

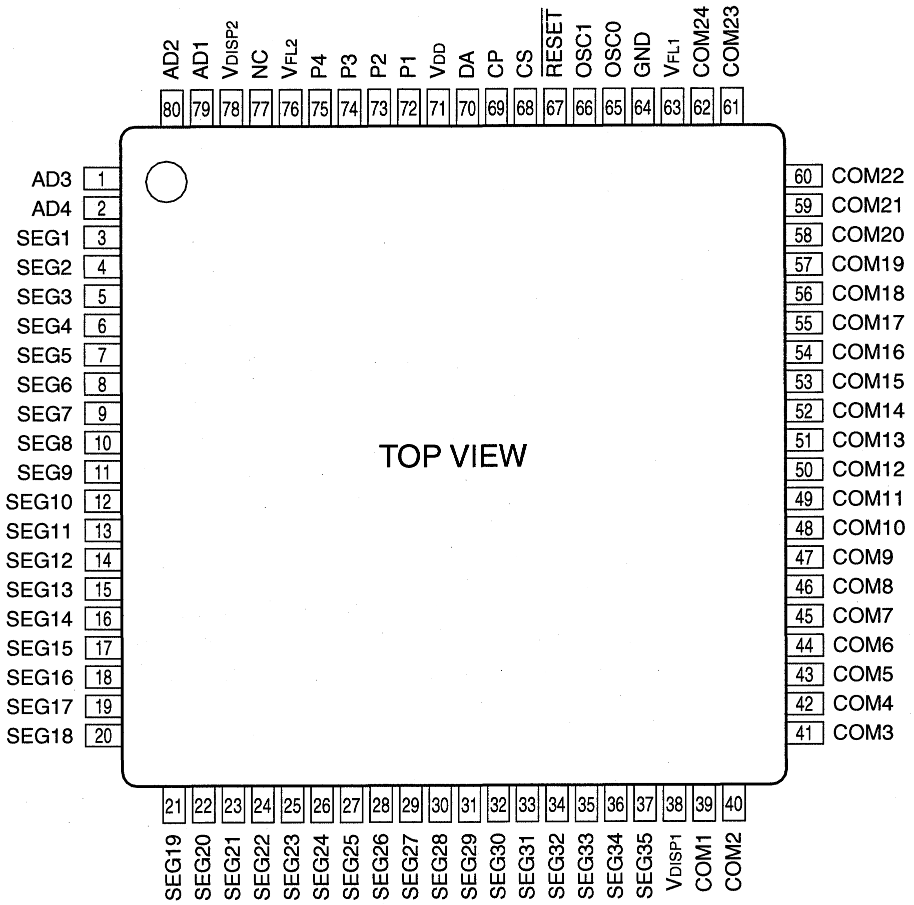
PCM1608Y Terminal Function

Pin No.	Pin Name	I/O	Function
1	ZERO1/GPO1	O	Zero Data Flag for VOUT1. Can also be used as GPO pin
2	ZERO2/GPO2	O	Zero Data Flag for VOUT2. Can also be used as GPO pin
3	ZERO3/GPO3	O	Zero Data Flag for VOUT3. Can also be used as GPO pin
4	ZERO4/GPO4	O	Zero Data Flag for VOUT4. Can also be used as GPO pin
5	ZERO5/GPO5	O	Zero Data Flag for VOUT5. Can also be used as GPO pin
6	ZERO6/GPO6	O	Zero Data Flag for VOUT6. Can also be used as GPO pin
7	NC	—	No Connection
8	NC	—	No Connection
9	VOUT6	O	Voltage Output of Audio Signal Corresponding to Rch on DATA3. Up to 96kHz
10	VOUT5	O	Voltage Output of Audio Signal Corresponding to Rch on DATA3. Up to 96kHz

Pin No.	Pin Name	I/O	Function
11	VOUT4	O	Voltage Output of Audio Signal Corresponding to Rch on DATA2. Up to 96kHz
12	VOUT3	O	Voltage Output of Audio Signal Corresponding to Rch on DATA2. Up to 96kHz
13	VOUT2	O	Voltage Output of Audio Signal Corresponding to Rch on DATA1. Up to 192kHz
14	VOUT1	O	Voltage Output of Audio Signal Corresponding to Rch on DATA1. Up to 192kHz
15	VCOM	O	Common Voltage Output. This pin should be bypassed with a 10μF capacitor to AGND
16	VOUT7	O	Voltage Output for Audio Signal Corresponding to Rch on DATA4. Up to 192kHz
17	AGND5	—	Analog Ground
18	VCC5	—	Analog Power Supply, +5V
19	AGND6	—	Analog Ground
20	VOUT8	—	Voltage Output for Audio Signal Corresponding to Rch on DATA4. Up to 192kHz
21	AGND4	—	Analog Ground
22	VCC4	—	Analog Power Supply, +5V
23	AGND3	—	Analog Ground
24	VCC3	—	Analog Power Supply, +5V
25	AGND2	—	Analog Ground
26	VCC2	—	Analog Power Supply, +5V
27	AGND1	—	Analog Ground
28	VCC1	—	Analog Power Supply, +5V
29	NC	—	No Connection
30	ZERO7	—	Zero Data Flag for VOUT7
31	DATA4	—	Serial Audio Data Input VOUT7 and VOUT8 (2)
32	ZERO8	—	Zero Data Flag for VOUT7
33	MDO	O	Serial Audio Data Output for Serial Port (3)
34	MDI	I	Serial Audio Data Input for Serial Port (1)
35	MC	I	Shift Clock for Serial Control Port (1)
36	ML	I	Latch Enable for Serial Control Port (1)
37	RST	I	System Reset, Active LOW (1)
38	SCKI	I	System Clock Input frequency is 128,192,256,384,512,or 768fs. (2)
39	SCKO	O	Buffered Clock Output frequency is 128,192,256,384,512,or 768fs. (2)
40	BCK	I	Shift Clock Input for Serial Audio Data. Clock must be 32,48,or,64fs. (2)
41	LRCK	I	Left and Right Clock Input. This clock is equal to the sampling rate, fs. (2)
42	TEST	—	Test Pin. This pin should be connected to DGND. (1)
43	VDD	—	Digital Power Supply, +3.3V
44	DGND	—	Digital Ground
45	DATA1	I	Serial Audio Data Input VOUT1 and VOUT2 (2)
46	DATA2	I	Serial Audio Data Input VOUT3 and VOUT4 (2)
47	DATA3	I	Serial Audio Data Input VOUT5 and VOUT6 (2)
48	ZEROA	O	Zero Data Flag. Logical "AND" of ZERO1 through ZERO6

Note: (1) Schmitt-Trigger input with internal pull-down, 5V tolerant. (2) Schmitt-Trigger input, 5V tolerant. (3) Tri-state output.

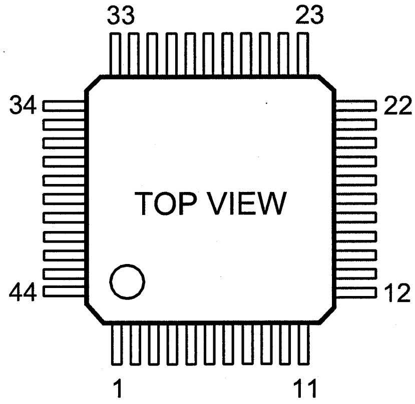
ML9207-01GP (IC101)


TOP VIEW
1 AD3
2 AD4
3 SEG1
4 SEG2
5 SEG3
6 SEG4
7 SEG5
8 SEG6
9 SEG7
10 SEG8
11 SEG9
12 SEG10
13 SEG11
14 SEG12
15 SEG13
16 SEG14
17 SEG15
18 SEG16
19 SEG17
20 SEG18
21 SEG19
22 SEG20
23 SEG21
24 SEG22
25 SEG23
26 SEG24
27 SEG25
28 SEG26
29 SEG27
30 SEG28
31 SEG29
32 SEG30
33 SEG31
34 SEG32
35 SEG33
36 SEG34
37 SEG35
38 VDISP1
39 COM1
40 COM2
41 COM3
42 COM4
43 COM5
44 COM6
45 COM7
46 COM8
47 COM9
48 COM10
49 COM11
50 COM12
51 COM13
52 COM14
53 COM15
54 COM16
55 COM17
56 COM18
57 COM19
58 COM20
59 COM21
60 COM22
61 COM23
62 COM24
63 VFL1
64 GND
65 OSC0
66 OSC1
67 RESET
68 CS
69 CP
70 DA
71 VDD
72 P1
73 P2
74 P3
75 P4
76 VFL2
77 NC
78 VDISP2
79 AD1
80 AD2

ML9207-01GP Terminal Function

Pin No.	Symbol	I/O	Function
3~37	SEG1~35	O	FL display anode electrode drive output pin
39~62	COM1~24	O	FL display grid electrode drive output pin
1, 2, 79, 80	AD1~4	O	FL display anode electrode drive output pin
72~75	P1~4	O	General port output pin
71	VDD	—	VDD-GND: Power for logic VDISP-VFL: Power for FL display drive Same power source should be used for VDD and VDISP
38, 78	VDISP1~2		
64	GND		
63, 76	VFL1~2		
70	DA	I	Serial data input pin (positive logic).
69	$\overline{\text{CP}}$	I	Shift clock input pin
68	$\overline{\text{CS}}$	I	Chip select input pin
67	$\overline{\text{RESET}}$	I	Reset input pin, L: All functions are initialized
65	OSCO	I	Pin for self-oscillation, target oscillation frequency 4.0MHz
66	OSC1	O	
77	NC	—	Not used

TMP86CM47U (IC102)

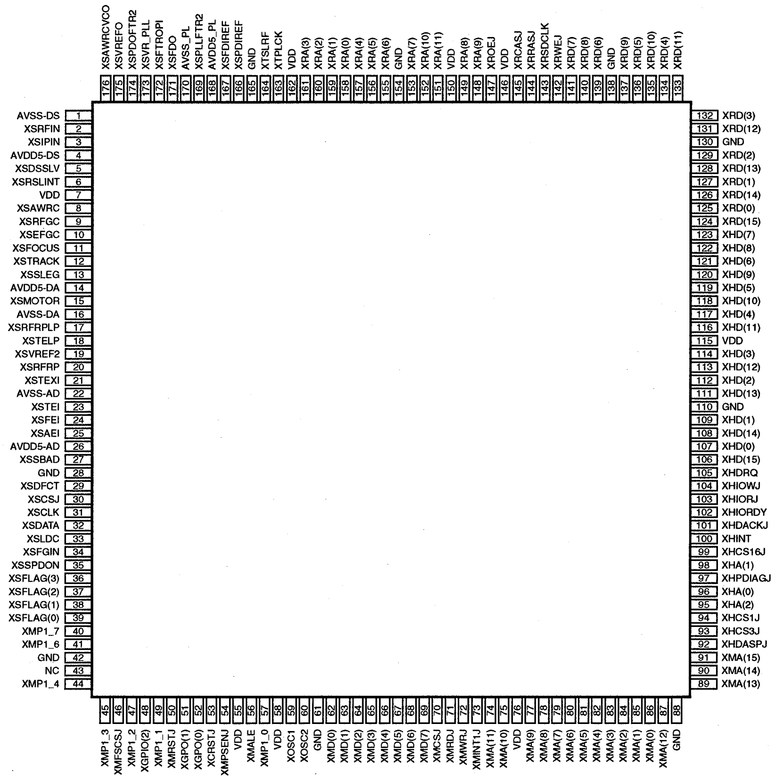


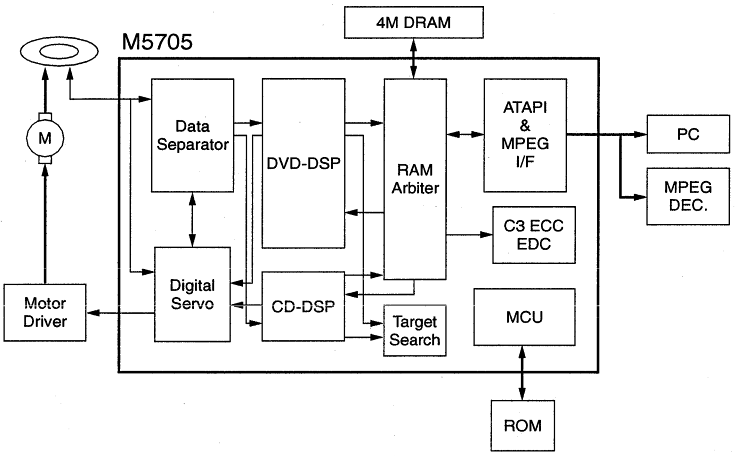
TMP86CM47U Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
1	VSS	VSS	—	—	—	—	—	GND(0V)
2	XIN	XIN	I	—	—	—	—	Oscillation input 16.0MHz
3	XOUT	XOUT	O	—	—	—	—	Oscillation output
4	TEST	TEST	I	—	—	—	—	Fixed to L
5	VDD	VDD	—	—	—	—	—	Power (+5.0V)
6	P21(LED)	LEDAT	O	—	Pu	L	H	BU2090 data
7	P22(LED)	LECLK	O	—	Pu	L	H	Clock signal for BU2090 data output
8	RESET_	RST_	I	—	—	—	—	µcom reset
9	P20(LED)	LED8	O	—	—	H	—	LED ON/OFF8 (L: ON)
10	P00(INT0)	TRSB	I	—	Pu	—	H	Track select encoder B input
11	P01	KIN7	I	—	Pu	—	H	Key scan input 7
12	P02(RXD)	RXD	I	—	Pu	—	H	Data receive from main unit
13	P03(TXD)	TXD	O	—	Pu	H	H	Data send to main unit
14	P04(SO)	FLDA	O	—	Pu	H	H	ML9207 data signal
15	P05	FLCS_	O	—	Pu	H	H	ML9207 latch signal
16	P06(SCK_)	FLCP_	O	—	Pu	H	H	Clock signal for ML9207 data output
17	P07	KIN6	I	—	Pu	—	H	Key scan input 6
18	P17	FLRES_	O	—	Pd	L	L	ML9207 reset signal
19	P16	KIN5	I	—	Pu	—	H	Key scan input 5
20	P15(INT3)	JOGD	I	Ed	Pu	—	H	JOG encoder D interrupt input
21	P14	KIN4	I	—	Pu	—	H	Key scan input 4
22	P13	KIN3	I	—	Pu	—	H	Key scan input 3
23	P12(INT2)	JOGC	I	Ed	Pu	—	H	JOG encoder C interrupt input
24	P11(INT1)	TRSA	I	Ed	Pu	—	H	Track select encoder A interrupt input
25	P10	KIN2	I	—	Pu	—	H	Key scan input 2
26	P30(AIN0)	PIT	I	—	—	—	—	Pitch VR signal
27	P31(AIN1)	PITC	I	—	—	—	—	Pitch VR center value signal
28	P32	KIN1	I	—	Pu	—	H	Key scan input 1
29	P33	KIN0	I	—	Pu	—	H	Key scan input 0
30	P34	KOUT0	O	—	Pu	H	H	Key scan output 0/LED line select 0 (L: Select)
31	P35	KOUT1	O	—	Pu	H	H	Key scan output 1/LED line select 1 (L: Select)
32	P36	KOUT2	I/O	—	Pu	H	H	Key scan output 2 (Other than scan, IN)
33	P37	KOUT3	I/O	—	Pu	H	H	Key scan output 3 (Other than scan, IN)
34	VAREF	VAREF	I	—	—	—	—	Power (+5.0V), Analog ref. V for A/D conversion
35	AVDD	AVDD	I	—	—	—	—	Power (+5.0V), For A/D conversion circuit only
36	AVSS	AVSS	I	—	—	—	—	GND(0V), Analog GND for A/D conversion
37	P40(LED)	LED0	O	—	—	H	—	LED ON/OFF0 (L: ON)
38	P41(LED)	LED1	O	—	—	H	—	LED ON/OFF1
39	P42(LED)	LED2	O	—	—	H	—	LED ON/OFF2
40	P43(LED)	LED3	O	—	—	H	—	LED ON/OFF3
41	P44(LED)	LED4	O	—	—	H	—	LED ON/OFF4
42	P45(LED)	LED5	O	—	—	H	—	LED ON/OFF5
43	P46(LED)	LED6	O	—	—	H	—	LED ON/OFF6
44	P47(LED)	LED7	O	—	—	H	—	LED ON/OFF7

* Pd or Pu detected in input port when power on, Pd=CD1, Pu=CD2

M5705 (IC501)


176 XSAWRCVCO
175 XSVREFO
174 XSPDOFTR2
173 XSVR_PLL
172 XSFTROPI
171 XSFDO
170 AVSS_PL
169 XSPLLFTR2
168 AVDD5_PL
167 XSFDIREF
166 XSPDIREF
165 GND
164 XTSLRF
163 XTPLCK
162 VDD
161 XRA(3)
160 XRA(2)
159 XRA(1)
158 XRA(0)
157 XRA(4)
156 XRA(5)
155 XRA(6)
154 GND
153 XRA(7)
152 XRA(10)
151 XRA(11)
150 VDD
149 XRA(8)
148 XRA(9)
147 XROEJ
146 VDD
145 XRCASJ
144 XRRASJ
143 XRSDCLK
142 XRWEJ
141 XRD(7)
140 XRD(8)
139 XRD(6)
138 GND
137 XRD(9)
136 XRD(5)
135 XRD(10)
134 XRD(4)
133 XRD(11)
AVSS-DS 1
XSRFIN 2
XSIPIN 3
AVDD5-DS 4
XSDSSLV 5
XSRSLINT 6
VDD 7
XSAWRC 8
XSRFGC 9
XSEFGC 10
XSFOCUS 11
XSTRACK 12
XSSLEG 13
AVDD5-DA 14
XSMOTOR 15
AVSS-DA 16
XSRFRPLP 17
XSTELP 18
XSVREF2 19
XSRFRP 20
XSTEXI 21
AVSS-AD 22
XSTEI 23
XSFEI 24
XSAEI 25
AVDD5-AD 26
XSSBAD 27
GND 28
XSDFCT 29
XSCSJ 30
XSCLK 31
XSDATA 32
XSLDC 33
XSFGIN 34
XSSPDON 35
XSFLAG(3) 36
XSFLAG(2) 37
XSFLAG(1) 38
XSFLAG(0) 39
XMP1_7 40
XMP1_6 41
GND 42
NC 43
XMP1_4 44
132 XRD(3)
131 XRD(12)
130 GND
129 XRD(2)
128 XRD(13)
127 XRD(1)
126 XRD(14)
125 XRD(0)
124 XRD(15)
123 XHD(7)
122 XHD(8)
121 XHD(6)
120 XHD(9)
119 XHD(5)
118 XHD(10)
117 XHD(4)
116 XHD(11)
115 VDD
114 XHD(3)
113 XHD(12)
112 XHD(2)
111 XHD(13)
110 GND
109 XHD(1)
108 XHD(14)
107 XHD(0)
106 XHD(15)
105 XHDRQ
104 XHIOWJ
103 XHIORJ
102 XHIORDY
101 XHDACKJ
100 XHINT
99 XHCS16J
98 XHA(1)
97 XHPDIAGJ
96 XHA(0)
95 XHA(2)
94 XHCS1J
93 XHCS3J
92 XHDASPJ
91 XMA(15)
90 XMA(14)
89 XMA(13)
45 XMP1_3
46 XMFSCSJ
47 XMP1_2
48 XGPIO(2)
49 XMP1_1
50 XMRSTJ
51 XGPO(1)
52 XGPO(0)
53 XCRSTJ
54 XMPSENJ
55 VDD
56 XMALE
57 XMP1_0
58 VDD
59 XOSC1
60 XOSC2
61 GND
62 XMD(0)
63 XMD(1)
64 XMD(2)
65 XMD(3)
66 XMD(4)
67 XMD(5)
68 XMD(6)
69 XMD(7)
70 XMCSJ
71 XMRDJ
72 XMWRJ
73 XMINT1J
74 XMA(11)
75 XMA(10)
76 VDD
77 XMA(9)
78 XMA(8)
79 XMA(7)
80 XMA(6)
81 XMA(5)
82 XMA(4)
83 XMA(3)
84 XMA(2)
85 XMA(1)
86 XMA(0)
87 XMA(12)
88 GND


4M DRAM
M5705
M
Data Separator
DVD-DSP
RAM Arbiter
ATAPI & MPEG I/F
PC
MPEG DEC.
C3 ECC EDC
Digital Servo
CD-DSP
Target Search
MCU
Motor Driver
ROM

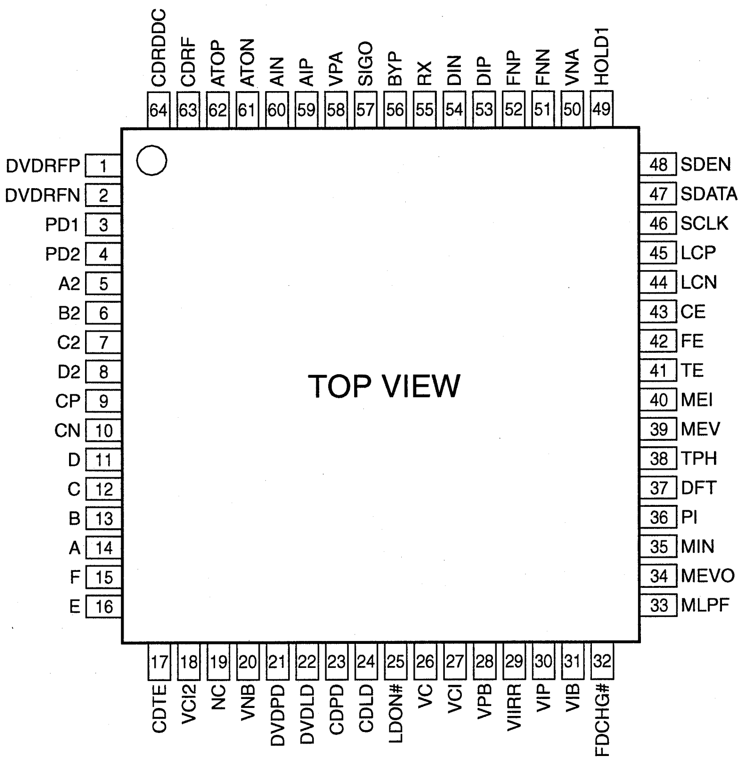
M5705 Terminal Function

Pin No.	Pin Name	Type	Description
2	XSRFIN	I/A	Analog RF signal input after passing through the equalizer
3	XSIPIN	I/A	Inverting input pin of data slicer
5	XSDSSLV	O/A	Slice level output pin
6	XSRSLINT	I/A	Reference current setting pin for analog data slicer
8	XSAWRC	O/A	Output for enlarge VCO range. Analog output from DAC buffer
9	XSRFGC	O/A	RF gain control output
10	XSEFGC	O/A	E,F gain control output
11	XSFOCUS	O/A	Output voltage level for focusing buffer IC
12	XSTRACK	O/A	Output voltage level for tracking buffer IC
13	XSSLEG	O/A	Output voltage level for sledge buffer IC
15	XSMOTOR	O/A	Output voltage level for spindle motor buffer IC
17	XSRFRPLP	I/A	High bandwidth low pass filter input for RFRP
18	XSTELP	I/A	High bandwidth low pass filter input for TE
19	XSVREF2	I/A	2.1V reference voltage input
20	XSRFRP	I/A	RF ripple/envelope signal input
21	XSTEXI	I/A	Tracking zero crossing input signal
23	XSTEI	I/A	Tracking error input signal
24	XSFEI	I/A	Focus error input signal
25	XSCEI	I/A	1. Center error input signal 2. Photo Interrupt input

Pin No.	Pin Name	Type	Description
27	XSSBAD	I/A	Sub-beam addition signal input
166	XSPDIREF	I/A	Phase detector reference current generator. Connect a resistor between this pin and ground to set reference current
167	XSFDIREF	I/A	Frequency detector reference current generator. Connect a resistor between this pin and ground to set reference current
169	XSPLLFTR2	I/A	Data PLL loop filter pin#2
171	XSFDO	O/A	Output node of frequency detector charge pump circuit
172	XSFTROPI	I/A	Input node of loop filter OP circuit
173	XSVR_PLL	I/A	PLL reference voltage input
174	XSPDOFTR2	I/A	Phase detector filter pin#1
175	XSVREFO	O/A	Reference voltage output
176	XSAWRCVCO	I/A	Auto Wide Range Control of VCO input pin. For enlarge VCO range in CAV mode
29	XSDFCT	I	Detect detection signal input
30	XSCSJ	O	Chip select signal for accessing control registers
31	XSCLK	O	Clock output for accessing control registers
32	XSDATA	I/O	Registers data input/output pin
33	XSLDC	O	Laser diode on/off control output for both CD/DVD
34	XSFGIN	I	Motor Hall sensor input
35	XSSPDON	O	Spindle motor on output
36, 37, 38, 39	XSFLAG[3:0]	O	These pins are used to monitor some status of servo control block
48, 51, 52	XGPIO[2:0]	I/O	1. These pins are used as general purpose I/O bus 2. When use internal microcontroller, XGPIO[2] can be used as programmable I/O port 3.6.
40	XMP1_7	I/O	Internal microcontroller programmable I/O port 1.7.
41	XMP1_6	I/O	Internal microcontroller programmable I/O port 1.6.
43	XMP1_5	I/O	This pin is now changed to be NC.
44	XMP1_4	I/O	Internal microcontroller programmable I/O port 1.4.
45	XMP1_3	I/O	Internal microcontroller programmable I/O port 1.3.
47	XMP1_2	I/O	Internal microcontroller programmable I/O port 1.2.
49	XMP1_1	I/O	Internal microcontroller programmable I/O port 1.1.
57	XMP1_0	I/O	Internal microcontroller programmable I/O port 1.0. This pin is default used as the A16 (microcontroller address line 16)
46	XMFSCSJ	I/O	Output chip select connected to external flash ROM chip enable pin
54	XMPSENJ	I/O	Output program store enable connected to external ROM PSENJ pin.
56	XMALE	I/O	This signal is used as address latch signal in address/data mux mode
70	XMCSJ	I/O	1. This signal must be asserted for all microcontroller accesses to the register of this chip 2. When use internal microcontroller, this signal can be used as programmable I/O port 3.1
71	XMRDJ	I/O	1. This signal is used as the Read Strobe signal 2. When use internal microcontroller, this signal can be used as programmable I/O port 3.0
72	XMWRJ	I/O	This signal is used as the Wire Strobe signal
73	XMINT1J	I/O	1. This signal is an interrupt line to the microcontroller 2. When use internal microcontroller, this signal can be used as programmable I/O port 3.7
74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 89, 90, 91	XMA[15:0]	I/O	These pins are used as address bus
62, 63, 64, 65, 66, 67, 68, 69	XMD[7:0]	I/O	These pins are used as data bus for the 16-bit processor mode, or the address/data mux bus for the 8-bit processor mode.
163	XTPLCK	I/O	PLCK test pin
164	XTSLRF	I/O	SLRF test pin
59	XOSC1	I	Crystal input/System clock. The input frequency from outside crystal or oscillator is 33.8688MHz
60	XOSC2	O	Crystal output
53	XCRSTJ	I	Chip Reset. As asserted low input generates a component reset that stops all operations within the chip and deasserts all output signals. All input/output signals are set to input.
94	XHCS1J	I	This pin is used to select the command block task file registers
93	XHCS3J	I	This pin is used to select the control block task file registers
103	XHIORJ	I	Asserted by the host during a host I/O read operation
104	XHIOWJ	I	Asserted by the host during a host I/O write operation
105	XHDRQ	O	1. DMA request. This pin is configured as the DMA request signal, and is used during DMA transfer between the host and the controller. This pin is tri-stated when DMA transfers are not enabled. 2. MPEG acknowledge. This pin is used as the ACKJ signal when MPEG interface mode is selected.
101	XHDACKJ	I	1. DMA acknowledge. This pin is configured as DACKJ, and is used as the DMA acknowledge signal during DMA data transfers. 2. MPEG request. This pin is used as the REQ signal when MPEG interface mode is selected
99	XHCS16J	O	1. 16-bit data select. This signal indicates that a 16-bit data transfer is active on the host data bus. This pin is open-drain tri-state output. 2. MPEG clock. This pin is used as the CLOCK signal when MPEG interface mode is selected.
50	XHRSTJ	I	Host Reset. The reset of ATA bus
100	XHINT	O	1. Host interface request. This tri-state pin is the host interrupt request, and is asserted to indicate to the host that the controller needs attention. 2. MPEG begin. This pin is used as the BEGIN signal when MPEG interface mode is selected

Pin No.	Pin Name	Type	Description
97	XHPDIAGJ	I/O	This pin is used as the Passed Diagnostics signal, and may be an input or an open-drain output
92	XHDASPJ	I/O	This pin is used as the Drive Active/Slave Present signal, and is an input or an open-drain output. This pin is used for Master/Slave drive communication and/or for driving an LED
102	XHIORDY	I/O	1. I/O channel ready. This signal is driven low to extend host transfer cycles when the controller is not ready to respond. This pin will be tri-stated when a read or write is not in progress. 2. MPEG error. This pin is used as the ERROR signal when MPEG interface mode is selected
95, 96, 98	XHA[2:0]	I	Host address lines. The host address lines A[2:0] are used to access the various host control, status, and data registers
106, 107, 108, 109, 111, 112, 113, 114, 116, 117, 118, 119, 120, 121, 122, 123	XHD[15.0]	I/O	1. Host data bus. This bus is used to transfer data and status between the host and the controller. 2. MPEG data bus 7-8. The HD[7:0] are used as the DATA [7:0] when MPEG interface mode is selected. 3. VCD I/F. Bit3-0 are used as VCD I/F signal when VCD function is enabled. The relationship of bit3-0 and VCD I/F is as follow HD0—CD-DATA HD1—CD-LRCK HD2—CD-BCK HD3—CD-C2PO
143	XRSDCLK	O	This signal is the clock output for SDRAM
147	XROEJ	O	This signal is used as the memory output enable for external DRAM buffers. After RSTJ is asserted, this signal will be low
142	XRWEJ	O	This signal is asserted low when a buffer memory write operation is active
144	XRRASJ	O	This signal is used as Row address output to external DRAM buffer. After RSTJ is asserted, this signal will be high
145	XRCASJ	O	This signal is used as column address output to external DRAM. After RSTJ is asserted, this signal will be high
148, 149, 151, 152, 153, 155, 156, 157, 158, 159, 160, 161	XRA[11:0]	O	1. RAM address lines. These are bits11-0 for addressing the buffer memory. 2. Hardware setting. The bits6-0 are used as hardware setting for some functions. RA[9] : FLASH size is 64K/128K 1: FLASH size is 64K 0: FLASH size is 128K RA[8] : External CPU is 8032/H8 1: 8032 0: H8 RA[7] : Microcontroller programmable I/O port 1 pin control 1: By internal microcontroller 0: By registers to decide input/output RA[6] : System test pin output 1: Normal operation 0: System test pin output RA[5] : For testing purpose, donít need to set RA[4] : IDE master/slave 1: Slave 0: Master RA[3] : For testing purpose, donít need to set RA[2] : For testing purpose, donít need to set RA[1-0] : MCU Mode selection 11: Normal Mode (internal uP, internal address latch) 10: Outside uP Mode (ICE Mode) 01: Test mode for internal uP testing 00: Internal uP mode with external address latch
124, 125, 126, 127, 128, 129, 131, 132, 134, 135, 136, 137, 138, 139, 140, 141	XRD[15:0]	I/O	These signals are the 8-bit parallel data lines to/from the buffer memory.
4	AVDD5_DS		Analog Power +5V for Data Slicer part
14	AVDD5_DA		Analog Power +5V for DAC part
26	AVDD5_AD		Analog Power +5V for ADC part
168	AVDD5_PL		Analog Power +5V for Data PLL part
7, 55, 58, 76, 115, 146, 150, 162	VDD		Power +3.3V for digital core logic and pad
1	AVSS_DS		Analog Ground for Data Slicer part
16	AVSS_DA		Analog Ground for DAC part
22	AVSS_AD		Analog Ground for ADC part
170	AVSS_PL		Analog Ground for Data PLL part
28, 42, 61, 88, 110, 130, 138, 154, 165	GND		Digital Ground core logic and pad.

SP3721A (IC502)

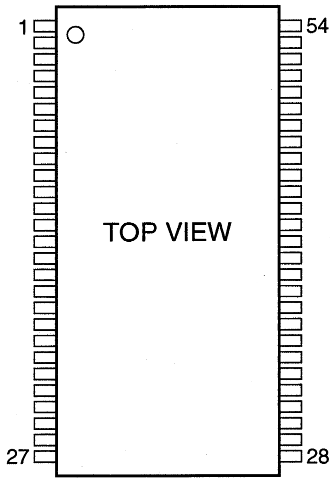

64 CDRDDC
63 CDRF
62 ATOP
61 ATON
60 AIN
59 AIP
58 VPA
57 SIGO
56 BYP
55 RX
54 DIN
53 DIP
52 FNP
51 FNN
50 VNA
49 HOLD1
DVDRFP 1
DVDRFN 2
PD1 3
PD2 4
A2 5
B2 6
C2 7
D2 8
CP 9
CN 10
D 11
C 12
B 13
A 14
F 15
E 16
TOP VIEW
48 SDEN
47 SDATA
46 SCLK
45 LCP
44 LCN
43 CE
42 FE
41 TE
40 MEI
39 MEV
38 TPH
37 DFT
36 PI
35 MIN
34 MEVO
33 MLPF
17 CDTE
18 VCI2
19 NC
20 VNB
21 DVDPD
22 DVDLD
23 CDPD
24 CDLD
25 LDON#
26 VC
27 VCI
28 VPB
29 VIIRR
30 VIP
31 VIB
32 FDCHG#

SP3721A Terminal Function

Pin No.	Pin Name	Type	Description
1, 2	DVDREP, DVDREN	I	RF Signal Inputs. Differential RF signal attenuator input pins
63	CDRF	I	RF Signal Inputs. Single-ended RF signal attenuator input pin
59, 60	AIP, AIN	I	AGC Amplifier Inputs. Differential AGC amplifier input pins
53, 54	DIP, DIN	I	Analog inputs for RF Single Buffer. Differential analog inputs to the RF single-ended output buffer and full wave rectifier
32	FDCHG#	I	Low Impedance Enable. A TTL compatible input pin that activates the FDCHG switches. A low level activates the switches and the falling edge of the internal FDCHG triggers the fast decay for the MIRR bottom hold circuit. (open high)
49	HOLD1	I	Hold Control. A TLL compatible control pin which, when pulled high, disables the RF AGC charge pump and holds the RF AGC amplifier gain at its present value. (open high)
11~14	D, C, B, A	I	Photo Detector Interface Inputs. Inputs from the main beam Photo detector matrix outputs
5~8	A2, B2, C2, D2	I	Photo Detector Interface Inputs. AC coupled inputs for the DPD from the main beam Photo detector matrix outputs
15~16	F, E	I	CD tracking Error Inputs. Inputs from the CD photo detector error outputs.
3~4	PD1, PD2	I	CD Photo detector Interface Inputs. Inputs from the CD photo detector error outputs
40	MEI	I	Mirror Envelope Inputs. The SIGO envelope input pin
35	MIN	I	RF signal Input for Mirror. AC coupled inputs for the mirror detection circuit from the pull-in signal output. (PI)
21	DVDPD	I	APC Input. DVD APC input pin from the monitor photo diode
23	CDPD	I	APC Input. CD APC input pin from the monitor photo diode
25	LDON#	I	APC Output On/Off. APC output control pin. A low level activates the LD output. (open high)
61, 62	ATON/ATOP	O	Differential Attenuator Output. Attenuator outputs
51, 52	FNN, FNP	O	Differential Normal Output. Filter normal outputs
57	SIGO	O	Single Ended Normal Output. Single-ended RF output
64	CDRFDC	O	CD RF Signal Output. Single ended CD RF summing output
42	FE	O	Focusing Error Signal Output. Focus error output reference to VCI
41	TE	O	Tracking Error Signal Output. Tracking error output reference to VCI

Pin No.	Pin Name	Type	Description
43	CE	O	Center Error Signal Output. Center error output reference to VCI
34	NEVO	O	SIGO Bottom Envelope Output. Bottom envelope for mirror detection
37	DFT	O	Defect Output. Pseudo CMOS output. When a defect is detected, the DFT output goes high. Also the servo AGC output can be monitored at this pin, when CAR bits 7-4 are '0011'
29	MIRR	O	Mirror Detect Output. Mirror Detect comparator output. Pseudo CMOS output
36	PI	O	Pull-in Signal Output. The summing signal output of A, B, C, D or PD1, PD2 for mirror detection. Reference to VCI
22	DVDLD	O	APC output. DVD APC output pin to control the laser power
24	CDLD	O	APC output. CD APC output pin to control the laser power
56	BYP	I/O	The RF AGC integration capacitor CBYP, is connected between BYP and VPA
9	CP	I/O	Differential Phase tracking LPF pin. An external capacitance is connected between this pin and the CN pin
10	CN	I/O	Differential Phase tracking LPF pin. An external capacitance is connected between this pin and the CP pin
45	LCP	—	Center Error LPF pin. An external capacitance is connected between this pin and the LCN pin
44	LCN	—	Center Error LPF pin. An external capacitance is connected between this pin and the LCP pin
30	MP	—	MIRR signal Peak hold pin. An external capacitance is connected to between this pin and VPB
31	MB	—	MIRR signal Bottom hold pin. An external capacitance is connected to between this pin and VPB
39	MEV	—	Sigo Bottom Envelope pin. An external capacitance is connected to between this pin and VPB
17	CDTE	—	CD Tracking. E-F Opamp output for feedback
38	TPH	—	PI Top Hold pin. An external capacitance is connected to between this pin and VPB
26	VC	—	Reference Voltage output. This pin provides the internal DC bias reference voltage (+2.5V lix). Output Impedance is less than 50ohms
27	VCI	—	Reference Voltage input. DC bias voltage input for the servo input reference
18	VCI2	—	Reference Voltage input. DC bias voltage input for the servo input reference
55	RX	—	Reference Resistor Input. An external 8.2kohm, 1% resistor is connected from this pin to ground to establish a precise PTAT (proportional to absolute temperature) reference current for the filter
33	MLPF	—	MIRR signal LPF pin. An external capacitance is connected between this pin and VPB
19	NC	—	No Connect
48	SDEN	I	Serial Data Enable. Serial Enable CMOS input. A high level input enable the serial port (Not to be left open)
47	SDATA	I/O	Serial Data. Serial data bi-directional CMOS pin. NRZ programming data for the internal registers is applied to this input (Not to be left open)
46	SCLK	I	Serial Clock. Serial Clock CMOS input. The clock applied to this pin is synchronized with the data applied to SDATA (Not to be left open)
58	VPA		Power. Power supply pin for the RF block and serial port
28	VPB		Power. Power supply pin for the servo block
50	VNA		Ground. Ground pin for the RF block and serial port
20	VNB		Ground. Ground pin for the servo bolck

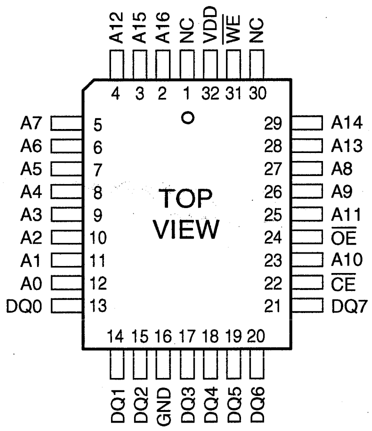
128M SDRAM
(IC402, 403)

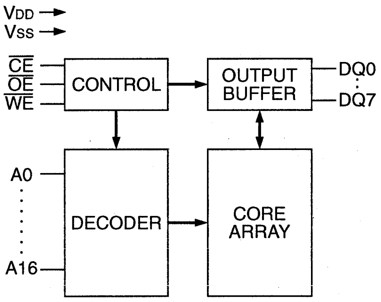

1
54
TOP VIEW
27
28

Pin Assignment

Pin No.	Pin Name	Function	Description
22, 23~26, 29~35	A0~A11	Address	Multiplexed pins for row and column address. Row address: A0~A11. Column address: A0~A8.
20, 21	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
2, 4, 5, 7, 8, 10,11, 13, 42, 44,45, 47, 48, 50, 51, 53	DQ0~ DQ15	Data Input/Output	Multiplexed pins for data output and input.
19	CS#	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
18	RAS#	Row Address Strobe	Command input. When sampled at the rising edge of the clock, RAS#, CAS# and WE# define the operation to be executed.
17	CAS#	Column Address Strobe	Referred to RAS#
16	WE#	Write Enable	Referred to RAS#
15, 39	UDQM/ LDQM	input/output mask	The output buffer is placed at Hi-A (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
37	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
1, 14, 27	Vcc	Power (+3.3V)	Power for input buffers and logic circuit inside DRAM.
28, 41, 54	Vss	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 43, 49	VccQ	Power (+3.3V) for I/O buffer	Separated power from Vcc, used for output buffers to improve noise.
6, 12, 46, 52	VssQ	Ground for I/O buffer	Separated ground from Vss, used for output buffers to improve noise.
36, 40	NC	No Connection	No Connection

W29EE011P (IC507)

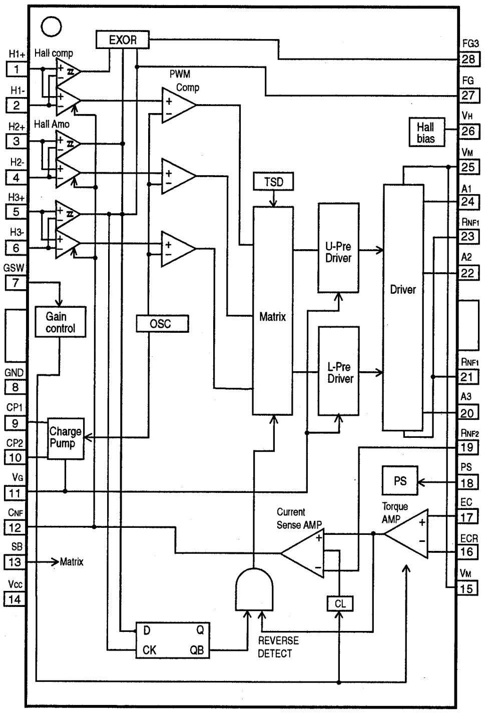

A12
A15
A16
NC
VDD
WE
NC
4 3 2 1 32 31 30
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
DQ0 13
29 A14
28 A13
27 A8
26 A9
25 A11
24 OE
23 A10
22 CE
21 DQ7
TOP VIEW
14 15 16 17 18 19 20
DQ1
DQ2
GND
DQ3
DQ4
DQ5
DQ6


VDD
Vss
CE
OE
WE
CONTROL
OUTPUT BUFFER
DQ0
DQ7
A0
A16
DECODER
CORE ARRAY

Terminal Function

Name	Function
A0 - A16	Address Inputs
DQ0 - DQ7	Data Inputs/Outputs
$\overline{CE}$	Chip Enable
$\overline{OE}$	Output Enable
$\overline{WE}$	Write Enable
VDD	Power Supply
GND	Ground
NC	No Connection

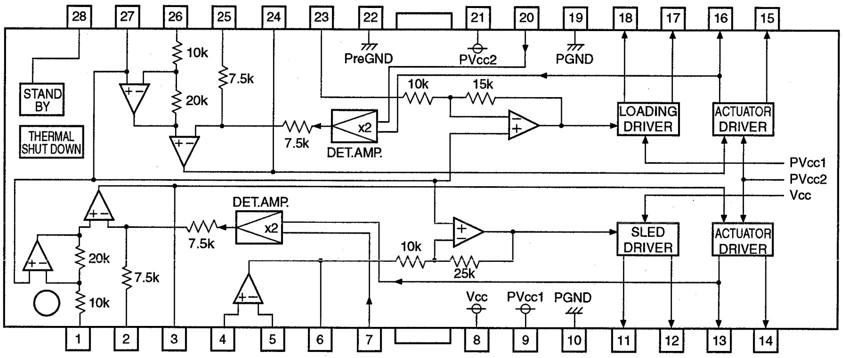
BD6670FM (IC510)


H1+
1
Hall comp
H1-
2
H2+
3
Hall Amo
H2-
4
H3+
5
H3-
6
GSW
7
GND
8
CP1
9
CP2
10
VG
11
CNF
12
SB
13
→Matrix
Vcc
14
EXOR
PWM Comp
Hall bias
TSD
U-Pre Driver
Driver
Matrix
OSC
Gain control
L-Pre Driver
Charge Pump
PS
Current Sense AMP
Torque AMP
CL
D Q
CK QB
REVERSE DETECT
FG3
28
FG
27
VH
26
VM
25
A1
24
RNF1
23
A2
22
RNF1
21
A3
20
RNF2
19
PS
18
EC
17
ECR
16
VM
15

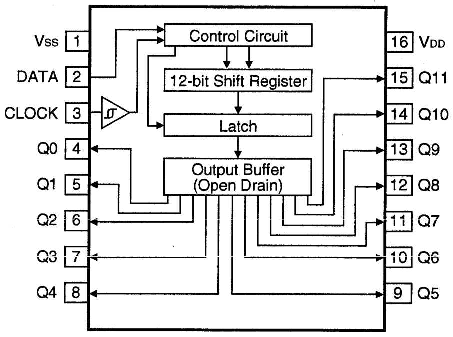
BD6670FM Terminal Function

Pin No.	Pin Name	Function
1	H1+	Hall input Amp 1 positive input
2	H1-	Hall input Amp 1 negative input
3	H2+	Hall input Amp 2 positive input
4	H2-	Hall input Amp 2 negative input
5	H3+	Hall input Amp 3 positive input
6	H3-	Hall input Amp 3 negative input
7	GSW	Gain switch pin
8	GND	GND
9	CP1	Capacitor pin 1 for charge pump
10	CP2	Capacitor pin 2 for charge pump
11	VG	Capacitor connection pin for charge pump
12	CNF	Capacitor connection pin for phase compensation
13	SB	Short Brake Pin
14	VCC	Power supply for signal division
15	VM	Power supply for driver
16	ECR	Torque control standard voltage input terminal
17	EC	Torque control voltage input terminal
18	PS	Power Save in
19	RNF2	Resistor connection pin for current sense
20	A3	Output3 for motor
21	RNF1	Resistor connection pin for current sense
22	A2	Output2 for motor
23	RNF1	Resistor connection pin for current sense
24	A1	Output1 for motor
25	VM	Power supply for driver
26	VH	Hall bias pin
27	FG	FG output pin
28	FG3	FG3 output pin

BA5954FP (IC509)


28
27
26
25
24
23
22
21
20
19
18
17
16
15
STAND BY
THERMAL SHUT DOWN
10k
7.5k
20k
PreGND
PVcc2
PGND
10k
15k
7.5k
x2
DET.AMP.
LOADING DRIVER
ACTUATOR DRIVER
PVcc1
PVcc2
Vcc
DET.AMP.
7.5k
x2
20k
7.5k
10k
10k
25k
SLED DRIVER
ACTUATOR DRIVER
Vcc
PVcc1
PGND
1
2
3
4
5
6
7
8
9
10
11
12
13
14

BU2090F (IC103, 201)

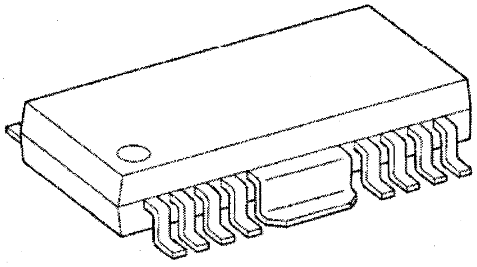

Vss 1
DATA 2
CLOCK 3
Q0 4
Q1 5
Q2 6
Q3 7
Q4 8
Control Circuit
12-bit Shift Register
Latch
Output Buffer (Open Drain)
16 VDD
15 Q11
14 Q10
13 Q9
12 Q8
11 Q7
10 Q6
9 Q5

BA5954FP Terminal Function

Pin No.	Pin Name	Function
1	VINFC	Focus driver input
2	CFCerr1	Cap. connection pin for error amp filter
3	CFCerr2	Cap. connection pin for error amp filter
4	VINSL+	Op. amp input (+) for sled driver
5	VINSL-	Op. amp input (-) for sled driver
6	VOSL	Op. amp output for sled driver
7	VNFFC	Focus driver feedback pin
8	Vcc	Pre Vcc, power Vcc for sled driver
9	PVcc1	Power Vcc for loading driver
10	PGND	Power GND
11	VOSL-	Output (-) of sled driver
12	VOSL+	Output (+) of sled driver
13	VOFC-	Output (-) of focus driver
14	VOFC+	Output (+) of focus driver

Pin No.	Pin Name	Function
15	VOTK+	Output (+) of tracking driver
16	VOTK-	Output (-) of tracking driver
17	VOLD+	Output (+) of loading driver
18	VOLD-	Output (-) of loading driver
19	PGND	Power GND
20	VNFTK	Tracking driver feedback pin
21	PVcc2	Power Vcc for actuator driver
22	PreGND	Pre GND
23	VINLD	Loading driver input
24	CTKerr2	Cap. connection pin for error amp filter
25	CTKerr1	Cap. connection pin for error amp filter
26	VINTK	Tracking driver input
27	BIAS	Bias input
28	STBY	Standby pin

TA7291F(IC512)

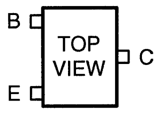


TA7291F Terminal Function

PIN No.			SYMBOL	FUNCTION DESCRIPTION
P	S	F		
7	2	11	Vcc	Supply voltage terminal for Logic
8	6	15	Vs	Supply voltage terminal for Motor driver
4	8	5	Vref	Supply voltage terminal for control
1	5	1	GND	GND terminal
5	9	7	IN1	Input terminal
6	1	9	IN2	Input terminal
2	7	4	OUT1	Output terminal
10	3	13	OUT2	Output terminal

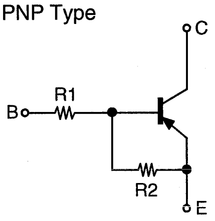
● TRANSISTORS

DTA114EK
DTC114EK



DTA114EK

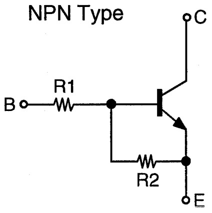
PNP Type



	R1	R2
DTA114EK	10kohm	10kohm

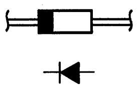
DTC114EK

NPN Type



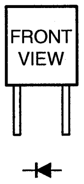
	R1	R2
DTC114EK	10kohm	10kohm

● DIODES



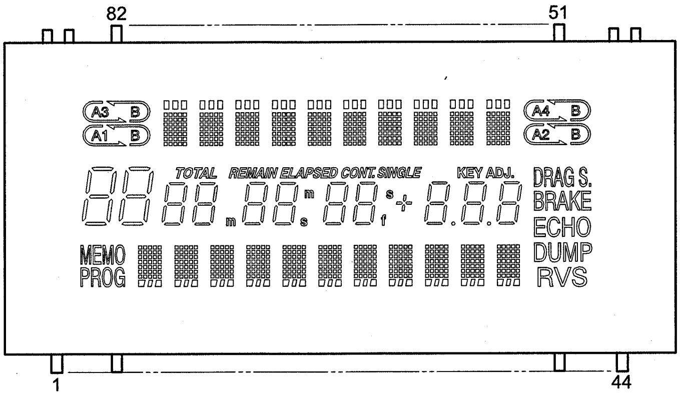
AW04
RN1Z
RN2Z
RN3Z

FMB-G14



● FL DISPLAY

24-ST-09GN (FL101)


82
51
1
44
A3 B
A1 B
A4 B
A2 B
TOTAL
REMAIN ELAPSED CONT. SINGLE
KEY ADJ.
m
s
f
DRAG S.
BRAKE
ECHO
DUMP
RVS
MEMO
PROG

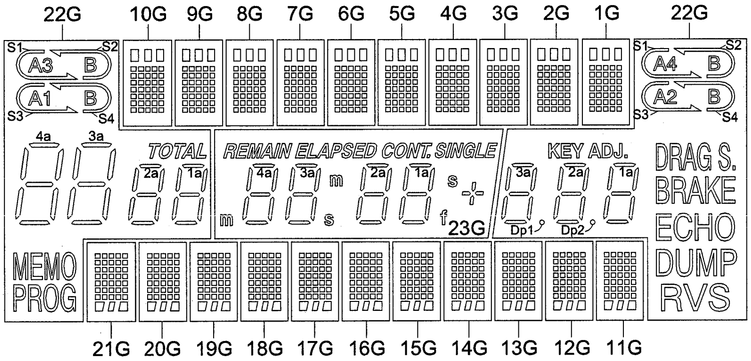
Pin Connection

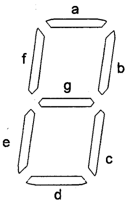
Pin No.	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45
Connection	NP	NP	NP	NP	NP	NP	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	23G	24G	NP	NP	NP	NP	NP	NP

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Connection	F−	F−	F−	F−	NP	NP	IC	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	22G	21G	20G	19G	18G	17G	16G	15G	14G	13G	12G	11G	NP	NP	F+	F+	F+	F+

NOTE: 1) F- , F+ ········ Filament 2) NP ········ No Pin 3) DL ········ Datum Line 4) 1G~24G ········ Grid
5) IC ········ Internal Connection 6) Visual Field ········ Upper 26°, lower 26°(min.)

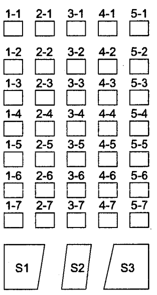
Grid Assignment


22G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
22G
S1
S2
S3
S4
A3 B
A1 B
A4 B
A2 B
4a
3a
TOTAL
2a
1a
REMAIN ELAPSED CONT. SINGLE
4a
3a
m
2a
1a
s
KEY ADJ.
3a
2a
1a
m
s
f
23G
Dp1
Dp2
DRAG S.
BRAKE
ECHO
DUMP
RVS
MEMO
PROG
21G
20G
19G
18G
17G
16G
15G
14G
13G
12G
11G



(22G~24G)

Segment Designation


1-1
2-1
3-1
4-1
5-1
1-2
2-2
3-2
4-2
5-2
1-3
2-3
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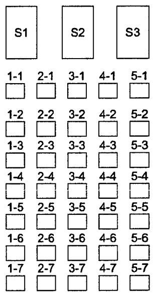
4-3
5-3
1-4
2-4
3-4
4-4
5-4
1-5
2-5
3-5
4-5
5-5
1-6
2-6
3-6
4-6
5-6
1-7
2-7
3-7
4-7
5-7
S1
S2
S3

(21G~11G)


S1
S2
S3
1-1
2-1
3-1
4-1
5-1
1-2
2-2
3-2
4-2
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1-3
2-3
3-3
4-3
5-3
1-4
2-4
3-4
4-4
5-4
1-5
2-5
3-5
4-5
5-5
1-6
2-6
3-6
4-6
5-6
1-7
2-7
3-7
4-7
5-7

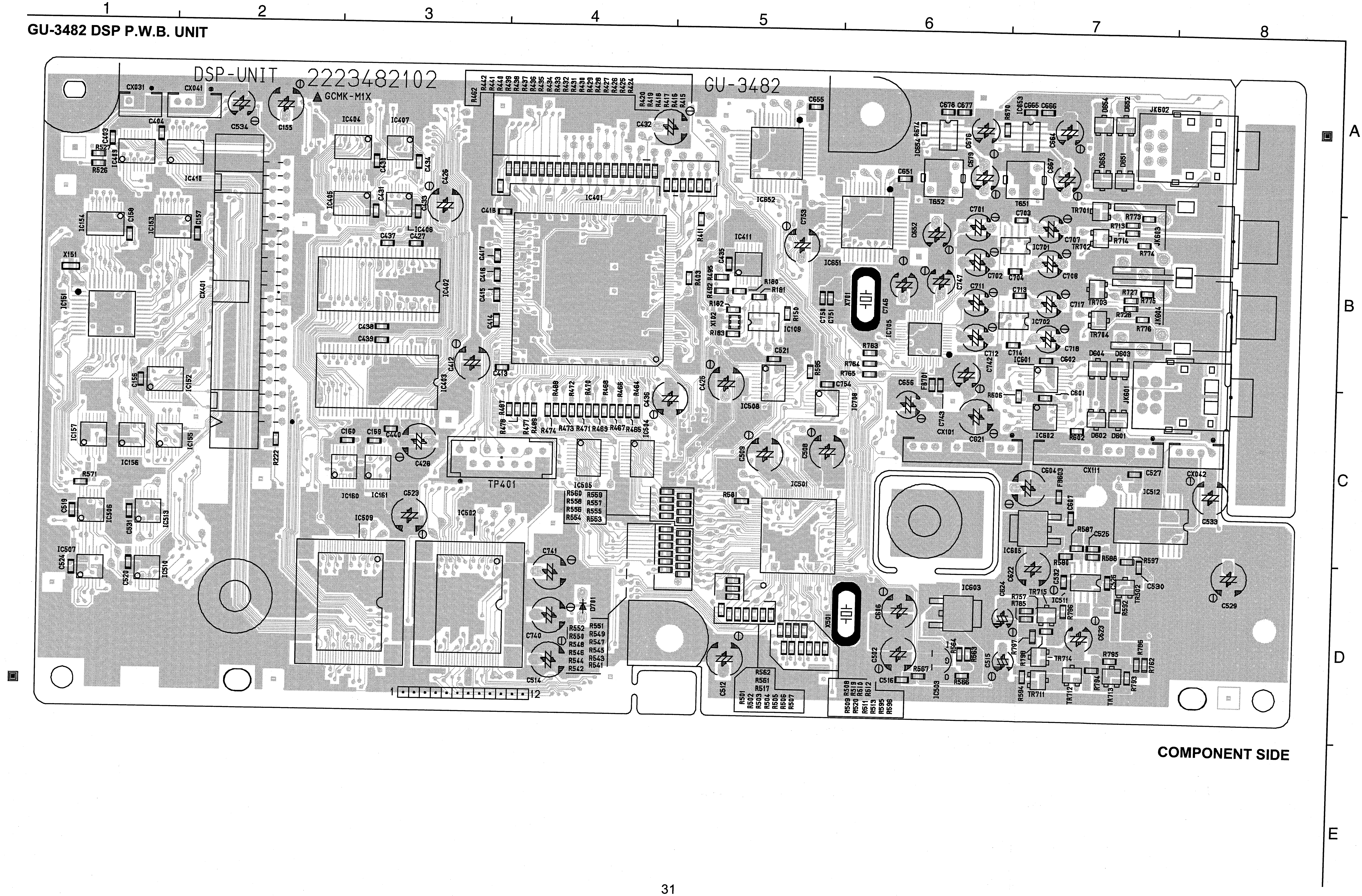
(10G~1G)

Anode Connection

	24G	23G	22G	21G~1G		24G	23G	22G	21G~1G
P1	RVS	1d	1d	1-1	P21	Dp1	3b	3a	1-5
P2	DUMP	1e	1e	2-1	P22	2d	3a	TOTAL	2-5
P3	ECHO	1c	1c	3-1	P23	2e	4d	MEMO	3-5
P4	BRAKE	1g	1g	4-1	P24	2c	4e	PROG	4-5
P5	DRAG S.	1f	1f	5-1	P25	2g	4c	4d	5-5
P6	↪	1b	1b	1-2	P26	2f	4g	4e	1-6
P7	A4	1a	1a	2-2	P27	2b	4f	4c	2-6
P8	↩	2d	2d	2-2	P28	2a	4b	4g	2-6
P9	B	2e	2e	4-2	P29	Dp2	4a	4f	4-6
P10	↪	2c	2c	5-2	P30	KEY ADJ.	m	4b	5-6
P11	A2	2g	2g	1-3	P31	3d	f	4a	1-7
P12	↩	2f	2f	2-3	P32	3e	▫▫	A1	2-7
P13	B	2b	2b	3-3	P33	3c	¦	↪	3-7
P14	1d	2a	2a	4-3	P34	3g	m	B	4-7
P15	1e	s	3d	5-3	P35	3f	s	↩	5-7
P16	1c	3d	3e	1-4	P36	3b	REMAIN	A3	S-1
P17	1g	3e	3c	2-4	P37	3a	ELAPSED	↪	S-2
P18	1f	3c	3g	3-4	P38	—	CONT.	B	S-3
P19	1b	3g	3f	4-4	P39	—	SINGLE	↩	—
P20	1a	3f	3b	5-4					

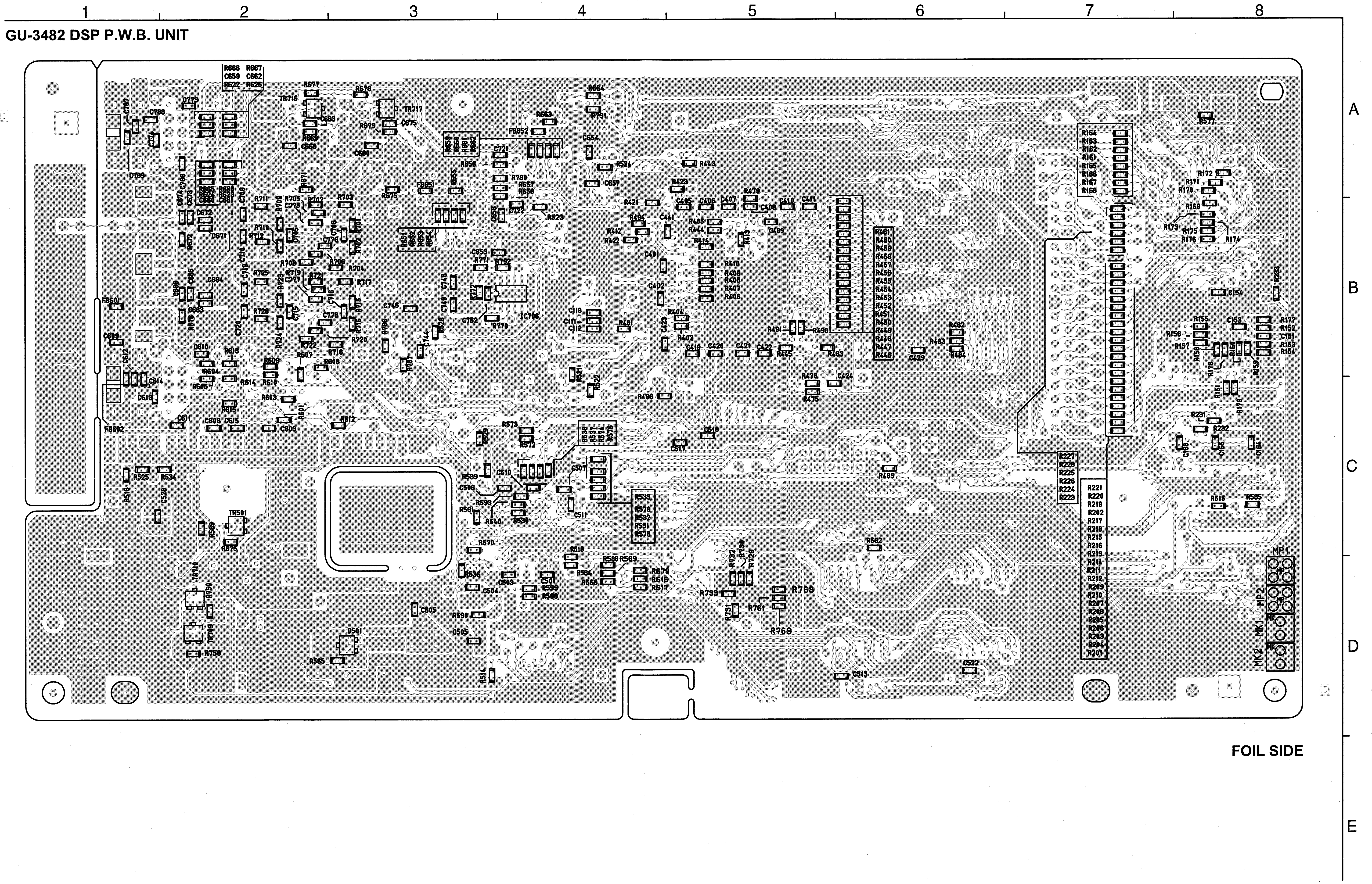
PRINTED WIRING BOARDS

GU-3482 DSP P.W.B. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
DSP-UNIT 2223482102
GCMK-M1X
GU-3482
IC401
IC402
IC403
IC404
IC405
IC406
IC407
IC410
IC411
IC151
IC152
IC153
IC154
IC155
IC156
IC157
IC160
IC161
IC108
IC501
IC502
IC503
IC505
IC506
IC507
IC508
IC509
IC510
IC511
IC512
IC513
IC601
IC602
IC603
IC605
IC651
IC652
IC653
IC654
IC701
IC702
IC705
IC798
CX031
CX041
CX101
CX111
CX401
CX042
X151
X102
X501
X701
JK601
JK602
JK603
JK604
TP401
T651
T652
D701
1
12

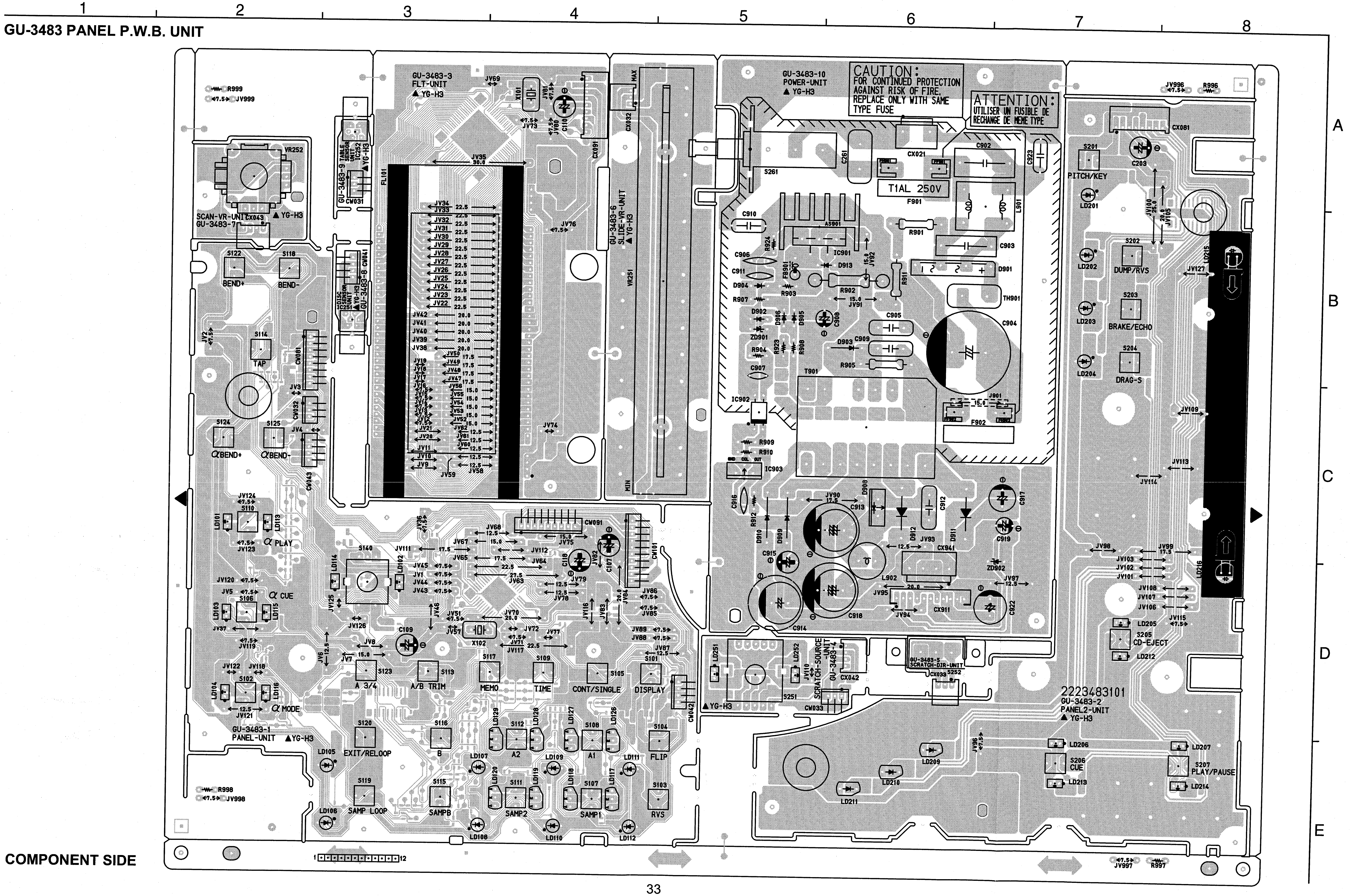
COMPONENT SIDE

GU-3482 DSP P.W.B. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
R666 R667 C659 C662 R622 R625
R677
R678
TR716
TR717
C663
C675
R673
R669
C668
C680
C773
C787
C788
C774
C789
R665 R668 C660 C661
C786 C674 C673
C672
C671
R672
C709
R711
R709
R705
R707
C775
R703
R671
R675
FB651
R655
R659 R660 R661 R662
R656
C721
R790
R657
R658
C722
C658
R523
R664
R791
R663
FB652
C654
R524
C657
R443
R651 R652 R653 R654
R710
R712
C776
R706
R704
R708
R719
C777
R721
R717
R725
C710
C719
R723
C685
C686
C684
C683
R676
R726
C720
R724
C715
C778
C716
R716
R722
R718
R720
FB601
C609
C610
R613
R604
R605
R614
C612
C614
C615
R615
R609
R610
R607
R608
R603
R601
C603
R612
C611
C608
C615
FB602
C653
R771
R792
C748
C749
R772
IC706
C745
C752
R770
R766
R528
C744
R767
R423
R421
C405
C406
C407
R479
C408
C410
C411
R494
C441
R405
R444
R412
R422
R414
R413
C409
C401
R410
R409
R408
R407
R406
C402
C113
C111
C112
R491
R490
R404
R402
C423
C419
C420
C421
C422
R445
R463
R461 R460 R459 R458 R457 R456 R455 R454 R453 R452 R451 R450 R449 R448 R447 R446
R482
R483
R484
C429
R476
C424
R475
R486
R521
R522
R164 R163 R162 R161 R165 R166 R167 R168
R577
R172
R171
R170
R169
R173
R175
R176
R174
R233
C154
R155
C153
R177 R152 C151 R153 R154
R156
R157
R158
R178
R160
R159
R151
R179
R231
R232
C166
C165
C164
R573
R529
R572
R538 R537 R574 R576
C518
C517
R485
R227 R228 R225 R226 R224 R223
R221 R220 R219 R202 R217 R218 R215 R216 R213 R214 R211 R212 R209 R210 R207 R208 R205 R206 R203 R204 R201
R515
R535
R525
R534
R516
C528
TR501
R589
R575
R539
C510
C507
C506
R593
R591
R540
R530
C511
R533 R579 R532 R531 R578
R570
R518
R586 R569
R536
C504
C503
C501
R599
R598
R584
R568
R679
R616
R617
R732
R730
R729
R733
R768
R761
R731
R769
R582
MP1
MP2
MK1
MK2
TR710
R759
TR709
R758
C605
D501
R565
R590
C505
R514
C522
C513

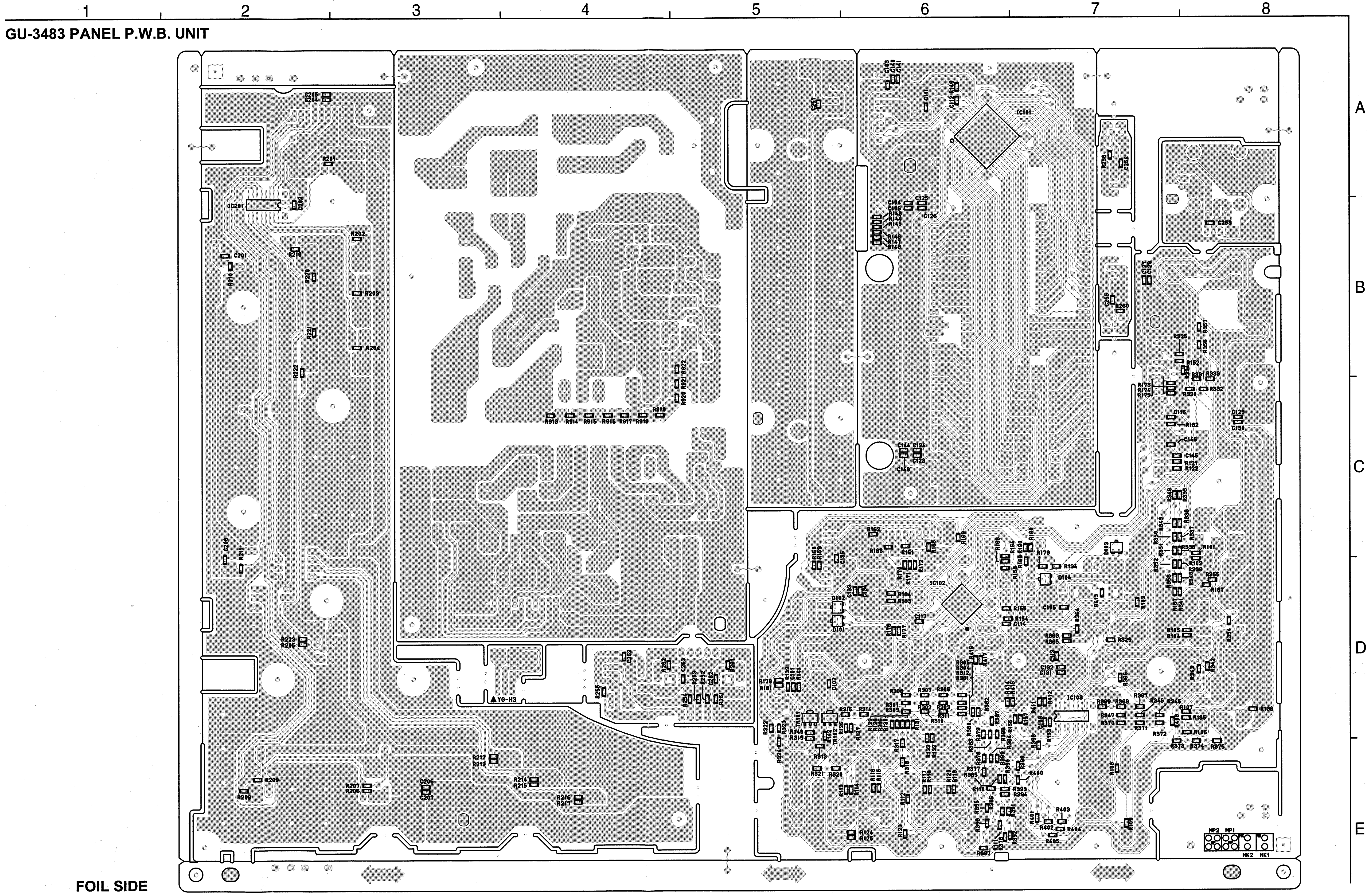
FOIL SIDE

GU-3483 PANEL P.W.B. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
GU-3483-3
FLT-UNIT
▲ YG-H3
GU-3483-10
POWER-UNIT
▲ YG-H3
CAUTION:
FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME
TYPE FUSE
ATTENTION:
UTILISER UN FUSIBLE DE
RECHANGE DE MEME TYPE
T1AL 250V
F901
GU-3483-6
SLIDE-VR-UNIT
▲ YG-H3
GU-3483-9 TABLE SENSOR UNIT
GU-3483-8 DISC SENSOR UNIT
SCAN-VR-UNIT
GU-3483-7
▲ YG-H3
VR252
VR251
MAX
MIN
FL101
S122
BEND+
S118
BEND-
S114
TAP
S124
αBEND+
S125
αBEND-
S110
α PLAY
S106
α CUE
S102
α MODE
GU-3483-1
PANEL-UNIT
▲YG-H3
S140
S123
A 3/4
S113
A/B TRIM
S117
MEMO
S109
TIME
S105
CONT/SINGLE
S101
DISPLAY
S120
EXIT/RELOOP
S116
B
S112
A2
S108
A1
S104
FLIP
S119
SAMP LOOP
S115
SAMPB
S111
SAMP2
S107
SAMP1
S103
RVS
S201
PITCH/KEY
S202
DUMP/RVS
S203
BRAKE/ECHO
S204
DRAG-S
S205
CD-EJECT
S206
CUE
S207
PLAY/PAUSE
S251
S252
SCRATCH-SOURCE-UNIT
GU-3483-4
GU-3483-5
SCRATCH-DIR-UNIT
▲YG-H3
2223483101
GU-3483-2
PANEL2-UNIT
▲ YG-H3
T901
IC901
IC902
IC903
CX021
CX041
CX081
CX911
CX941
CW091
CW101
S261

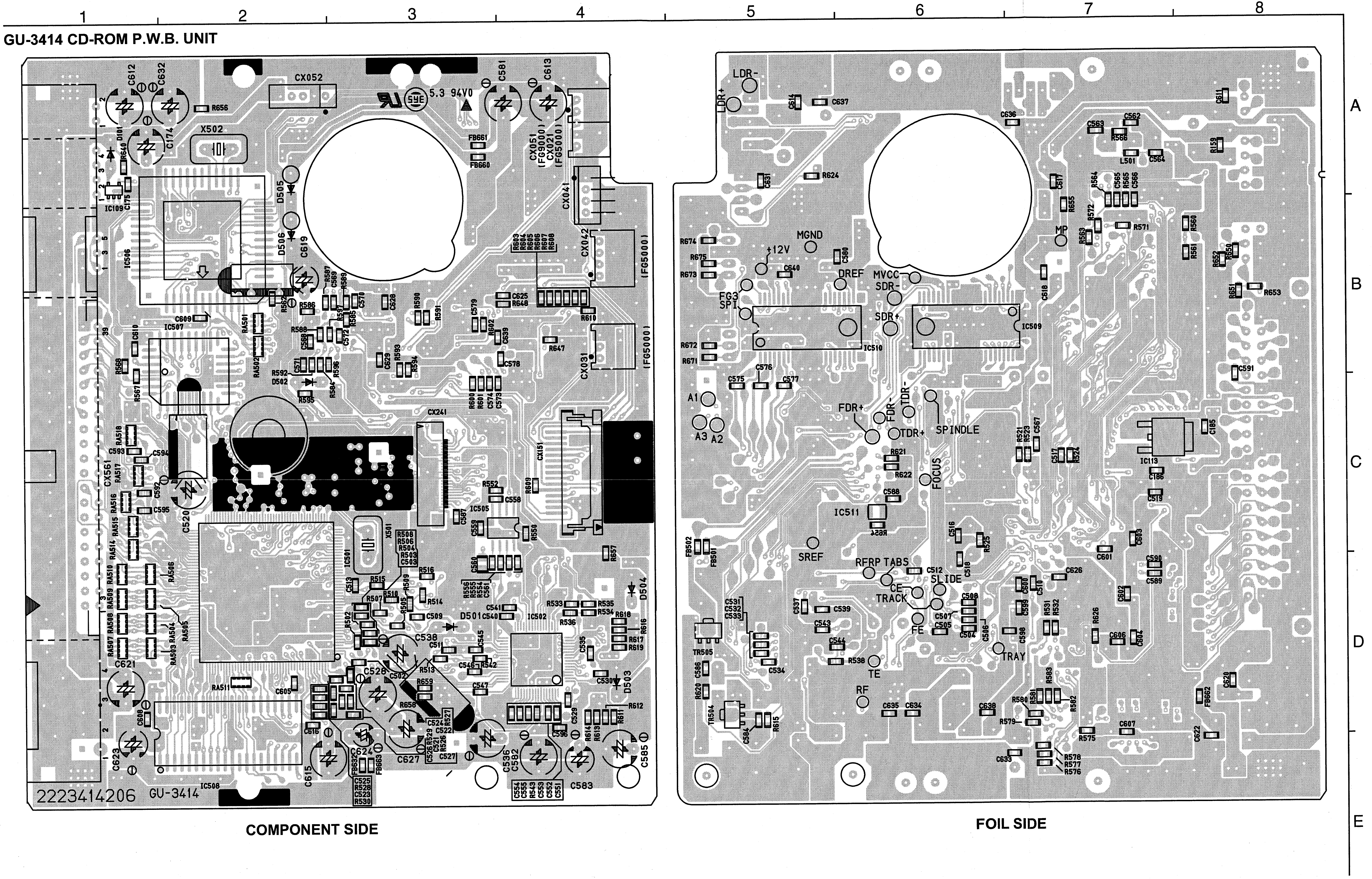
COMPONENT SIDE

GU-3483 PANEL P.W.B. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
IC101
IC102
IC103
IC201
YG-H3
MP2
MP1
MK2
MK1

FOIL SIDE

GU-3414 CD-ROM P.W.B. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
CX052
5.3 94V0
C612
C632
C174
R656
X502
D101
R640
IC109
C175
IC506
D505
D506
C619
C581
C613
FB661
FB660
CX051 (FG9000)
CX021 (FG5000)
CX041
CX042
(FG5000)
CX031
(FG5000)
IC507
C609
C610
R566
R567
RA501
RA502
D502
R595
C625
R648
R610
R647
C578
CX241
CX151
CX561
C520
C593
C594
C595
C592
RA518
RA517
RA516
RA515
RA514
RA510
RA509
RA508
RA507
RA506
RA505
RA504
RA503
IC501
X501
IC505
R552
C558
R550
R609
R657
D504
IC502
D501
C538
C528
C627
C624
C615
C616
C621
C623
C608
RA511
C605
C582
C583
C585
C536
D503
R612
2223414206
GU-3414
IC508
LDR-
LDR+
C614
C637
C636
C631
R624
MGND
+12V
C640
C580
DREF
MVCC
SDR-
SDR+
FG3
SPI
IC510
IC509
R674
R675
R673
R672
R671
C575
C576
C577
A1
A3
A2
FDR+
FDR-
TDR-
TDR+
SPINDLE
FOCUS
R621
R622
C588
IC511
R551
SREF
RFRP
TABS
C512
SLIDE
CE
TRACK
FE
TE
RF
TRAY
TR505
TR504
C586
R620
C584
R615
C531
C532
C533
C534
C537
C539
C543
C544
R538
C635
C634
C638
C633
R575
R576
R577
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R579
R580
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FB662
C620
C626
C601
C603
C602
C606
C604
C589
C590
C519
C186
C185
IC113
C591
R651
R652
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R653
R560
R561
R159
C611
C562
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L501
C564
C565
C566
C564
R571
R572
R563
MP
R655
C617
C618
R521
R523
C567
C517
C524
C516
R525
C518
C510
C600
C599
C506
C598
C508
C507
C505
C504
R531
R532
R626
FB502
FB501

COMPONENT SIDE

FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "◉" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film Resister ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including Carbon Chip Resister 1/16W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others

RD : Carbon	2B : 1/8W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : ±5%	NB : Non-burning type
RW : Winding	3A : 1W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
2 — Indicates number of zeros after effective number.
1 8 — 2-digit effective number.
- Units: ohm

1 R 2 ⇒ 1.2 ohm
2 — 1-digit effective number.
1 R — 2-digit effective number, decimal point indicated by R.
- Units: ohm

● Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high requency
CC : Ceramic	1H : 50V	Z : +80% −20%	U : UL part
CP : Oil	2A : 100V	P : +100% −0%	C : CSA part
CM : Mica	2B : 125V	C : ±0.25pF	W : UL-CSA type
CF : Metallized	2C : 160V	D : ±0.5pF	F : Lead wire forming
CH : Metallized	2D : 200V	= : Others	
	2E : 250V		
	2H : 500V		
	2J : 630V		

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
2 — Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: µF.

2 R 2 ⇒ 2.2µF
2 — 1-digit effective number.
2 R — 2-digit effective number, decimal point indicated by R.
- Units: µF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022µF
2 — (More than 2)— Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: pF.

2 2 1 ⇒ 220pF
1 — (0 or 1)— Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

部品表について

1．◉印の部品は常時在庫していませんので供給に長時間を要することがあります。
場合によっては、供給をお断りすることがあります。
2．部品を発注する際は特に数字の“1”と英字の“I”との区別をはっきり記入してください。
3．部品番号を表示していない部品は供給できません。
4．⚠ ▨ 印の部品は安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
5．★印のついている部品は分解図中には記載していません。
6．カーボン抵抗器± 5%、1/4W 型は記載していません。定数は回路図を参照願います。
7．カーボンチップ抵抗器 1/16W 型は記載していません。定数は回路図を参照願います。
8．部品表の抵抗器、コンデンサの品名記号の読み方は表を参照してください。

●抵抗器

例）	RN	14K	2E	182	G	FR
	種類	形状特性	電力	抵抗値	許容差	その他

RD ： カーボン	2B ：1/8 W	F ： ±1%	P ：耐パルス形
RC ： 固定体	2E ：1/4 W	G ： ±2%	NL ：低雑音形
RS ： 金属系皮膜	2H ：1/2 W	J ： ±5%	NB ：不燃形
RW ： 巻線	3A ：1 W	K ： ±10%	FR ：ヒューズ抵抗
RN ： 金属皮膜	3D ：2 W	M ： ±20%	F ：リード線成形
RK ： 金属混合体	3F ：3 W		
	3H ：5 W		

＊抵抗値

18 2 ⇨ 1800Ω=1.8kΩ
2 — 有効数字につづく 0 の数を表わす。
18 — 2 桁の有効数字を表わす。

1R 2 ⇨ 1.2Ω
2 — 1 桁の有効数字を表わす。
1R — 2 桁の有効数字で小数点は R で表わす。

：単位はΩ

●コンデンサ

例）	CE	04W	1H	2R2	M	BP
	種類	形状特性	耐圧	容量	許容差	その他

CE ： アルミ箔電解	0J ：6.3 V	F ： ±1%	HS ： 高安定形
CA ： アルミ固体電解	1A ：10 V	G ： ±2%	BP ： 無極性形
CS ： タンタル電解	1C ：16 V	J ： ±5%	HR ： 耐リップル形
CQ ： フィルム	1E ：25 V	K ： ±10%	DL ： 充放電対策用
CK ： セラミック	1V ：35 V	M ： ±20%	HF ： 高周波保証用
CC ： セラミック	1H ：50 V	Z ： +80% −20%	U ： UL 部品
CP ： オイル	2A ：100 V	P ： +100% − 0%	C ： CSA 部品
CM ： マイカ	2B ：125 V	C ： ±0.25pF	W ： UL-CSA 部品
CF ： メタライズド	2C ：160 V	D ： ±0.5pF	F ： リード線成形
CH ： メタライズド	2D ：200 V	= ： その他	
	2E ：250 V		
	2H ：500 V		
	2J ：630 V		

＊容量値

● 電解コンデンサの場合

22 2 ⇨ 2200µF
2 — 有効数字につづく 0 の数を表わす。
22 — 2 桁の有効数字を表わす。
：単位はµF

2R 2 ⇨ 2.2µF
2 — 1 桁の有効数字を表わす。
2R — 2 桁の有効数字で小数点は R で表わす。
：単位はµF

● 電解コンデンサ以外の場合

22 2 ⇨ 2200pF=0.0022µF
2 — 有効数字につづく 0 の数を表わす。(0 の数が 2 以上の場合)
22 — 2 桁の有効数字を表わす。
：単位はpF

22 1 ⇨ 220pF
1 — 有効数字につづく 0 の数を表わす。(0 の数が 0 または 1 の場合)
22 — 2 桁の有効数字を表わす。
：単位はpF

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

PARTS LIST OF P.W.B. UNIT ASS'Y

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Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A. model, Csnada model
E2: Europe model

SEMICONDUCTORS GROUP

Ref. No.	Part No.	Part Name	Remarks	New
IC109	262 3082 908	BD4743G		
IC113	263 1079 903	BA033FP		
IC501	262 3083 004	M5705		
IC502	262 3084 003	SP-3721A		
IC505	262 3085 905	TL3472		
IC507	262 3086 001	W29EE011P-90		
IC508	262 3087 903	M11B416256A-35J		
IC509	262 3088 902	BA5954FP		
IC510	262 3089 901	BD6670FM		
TR504,505	272 0160 901	2SB1132T100Q		
D101	276 0401 905	1SS133T77 (TAPE)		
D502-504	276 0401 905	1SS133T77 (TAPE)		

RESISTORS GROUP

Ref. No.	Part No.	Part Name	Remarks	New
R159	247 2005 987	RM73B--221JT		
R502	247 2010 956	RM73B--203JT		
R503	247 2011 955	RM73B--513JT		
R505-507	247 2008 968	RM73B--332JT		
R508	247 2009 983	RM73B--103JT		
R509	247 2011 942	RM73B--473JT		
R510	247 2003 989	RM73B--330JT		
R513	247 2007 998	RM73B--162JT		
R514	247 2009 909	RM73B--472JT (1608)		
R515	247 2009 912	RM73B--512JT		
R516	247 2009 909	RM73B--472JT (1608)		
R521	247 2002 964	RM73B--100JT		
R523	247 2009 983	RM73B--103JT		
R524	247 2002 964	RM73B--100JT		
R525	247 2014 965	RM73B--105JT		
R527	247 2009 909	RM73B--472JT (1608)		
R528	247 2009 983	RM73B--103JT		
R529	247 2009 912	RM73B--512JT		
R530	247 2007 969	RM73B--122JT		
R531	247 2012 925	RM73B--104JT		
R532	247 2011 968	RM73B--563JT		
R533	247 2009 996	RM73B--113JT		
R534,535	247 2007 969	RM73B--122JT		
R536	247 2009 996	RM73B--113JT		
R538	247 2009 983	RM73B--103JT		
R542	247 2018 903	RM73B--0R0KT		
R543	247 2019 931	RM73B--822FT		
R550	247 2007 985	RM73B--152JT		
R552	247 2019 931	RM73B--822FT		
R554	247 2011 968	RM73B--563JT		
R555	247 2009 983	RM73B--103JT		
R556	247 2013 982	RM73B--474JT		
R562	247 2009 983	RM73B--103JT		
R567	247 2018 903	RM73B--0R0KT		
R584	247 2003 989	RM73B--330JT		
R585	247 2009 983	RM73B--103JT		
R586	247 2011 900	RM73B--333JT		
R587	247 2018 903	RM73B--0R0KT		
R588	247 2010 901	RM73B--123JT		
R589	247 2008 968	RM73B--332JT		
R590,591	247 2018 916	RM73B--010KT		
R592	247 2009 983	RM73B--103JT		
R593,594	247 2018 916	RM73B--010KT		
R595	247 2009 983	RM73B--103JT		
R596	247 2011 900	RM73B--333JT		
R597	247 2018 903	RM73B--0R0KT		
R601	247 2018 903	RM73B--0R0KT		
R602	247 2003 989	RM73B--330JT		
R603-606	247 2018 987	RM73B--2R0KT		
R609,610	247 2005 929	RM73B--121JT		
R611-614	247 2004 904	RM73B--390JT		
R615	247 2009 912	RM73B--512JT		
R616-619	247 2004 904	RM73B--390JT		
R620	247 2007 943	RM73B--102JT		
R621	247 2007 969	RM73B--122JT		
R622	247 2006 960	RM73B--471JT		
R626	247 2008 926	RM73B--222JT		
R640	247 2009 983	RM73B--103JT		
R647	247 2018 903	RM73B--0R0KT		
R648	247 2009 983	RM73B--103JT		
R650,651	247 2009 983	RM73B--103JT		
R653	247 2008 968	RM73B--332JT		
R654,655	247 2018 903	RM73B--0R0KT		
R671,672	247 2011 942	RM73B--473JT		
R673,674	247 2004 933	RM73B--510JT		
R675	247 2005 987	RM73B--221JT		

CAPACITORS GROUP

Ref. No.	Part No.	Part Name	Remarks	New
C174	254 4299 964	CE04W1C470MT(SRE)		
C185,186	257 0512 903	CK73F1E104ZT		
C502	257 0509 929	CK73B1H102KT		
C503	257 0510 950	CK73B1H682KT		
C505,506	257 0508 917	CC73CH1H471JT		
C507,508	257 0516 941	CK73B1E473KT		
C509,510	257 0516 954	CK73B1E104KT		
C511,512	257 0509 929	CK73B1H102KT		
C513	257 0516 954	CK73B1E104KT		
C516	257 0504 908	CC73CH1H220JT		
C517	257 0504 982	CC73CH1H470JT		
C518	257 0504 908	CC73CH1H220JT		
C519	257 0512 903	CK73F1E104ZT		
C520	254 4533 934	CE04W0J221MT SMG/RE3		
C521-523	257 0516 954	CK73B1E104KT		
C524	257 0504 982	CC73CH1H470JT		
C525	257 0508 933	CC73CH1H561JT		
C526	257 0516 941	CK73B1E473KT		
C527	257 0512 903	CK73F1E104ZT		
C528	254 4300 963	CE04W0J101MT(SRE)		
C529	257 0508 959	CC73CH1E681JT		
C530	257 0516 954	CK73B1E104KT		
C531-534	257 0508 959	CC73CH1E681JT		
C535	257 0506 951	CC73CH1H101JT		
C536	254 4300 963	CE04W0J101MT(SRE)		
C537	257 0512 903	CK73F1E104ZT		
C538	254 4533 921	CE04W0J101MT SMG/RE3		
C539	257 0512 903	CK73F1E104ZT		
C540	257 0510 934	CK73B1H472KT		
C541	257 0509 929	CK73B1H102KT		
C543	257 0507 918	CC73CH1H181JT		
C544	257 0509 929	CK73B1H102KT		
C545	257 0516 954	CK73B1E104KT		
C546	257 0516 941	CK73B1E473KT		
C547	257 0508 959	CC73CH1E681JT		
C551-555	257 0516 954	CK73B1E104KT		
C558	257 0516 954	CK73B1E104KT		
C559	257 0512 903	CK73F1E104ZT		
C560	257 0033 903	CK73B1E474KT		

Ref. No.	Part No.	Part Name	Remarks	New
C561	257 0504 940	CC73CH1H330JT		
C568	257 0512 903	CK73F1E104ZT		
C569	257 0506 951	CC73CH1H101JT		
C570	257 0510 934	CK73B1H472KT		
C571,572	257 0506 951	CC73CH1H101JT		
C573,574	257 0516 954	CK73B1E104KT		
C575-577	257 0509 929	CK73B1H102KT		
C578	257 0516 954	CK73B1E104KT		
C579,580	257 0512 903	CK73F1E104ZT		
C581	254 4193 947	CE04W1C101MT (SRA)		
C582	254 4300 963	CE04W0J101MT(SRE)		
C583	254 4299 919	CE04W1C220MT(SRE)		
C584	257 0509 929	CK73B1H102KT		
C585	254 4300 963	CE04W0J101MT(SRE)		
C586	257 0509 929	CK73B1H102KT		
C587,588	257 0512 903	CK73F1E104ZT		
C589,590	257 0503 925	CC73CH1H100DT		
C592-595	257 0503 925	CC73CH1H100DT		
C596	257 0512 903	CK73F1E104ZT		
C598-608	257 0512 903	CK73F1E104ZT		
C610,611	257 0512 903	CK73F1E104ZT		
C612	254 4193 947	CE04W1C101MT (SRA)		
C613	254 4300 963	CE04W0J101MT(SRE)		
C614	257 0512 903	CK73F1E104ZT		
C615	254 4300 963	CE04W0J101MT(SRE)		
C616	257 0508 917	CC73CH1H471JT		
C617,618	257 0512 903	CK73F1E104ZT		
C619	254 4538 942	CE04W1C101MT SMG/RE3		
C620	257 0512 903	CK73F1E104ZT		
C621	254 4300 963	CE04W0J101MT(SRE)		
C622	257 0512 903	CK73F1E104ZT		

Ref. No.	Part No.	Part Name	Remarks	New
C623,624	254 4300 963	CE04W0J101MT(SRE)		
C625	257 0501 901	CK73B1H103KT (1608)		
C626	257 0510 934	CK73B1H472KT		
C627	254 4300 963	CE04W0J101MT(SRE)		
C628,629	257 0512 903	CK73F1E104ZT		
C632	254 4193 947	CE04W1C101MT (SRA)		
C633-640	257 0512 903	CK73F1E104ZT		
OTHER PARTS GROUP				
CX31	205 0355 033	3P KR CON BASE(L)		
CX42	205 0355 046	4P KR CON BASE(L)		
CX151	205 1224 901	15P FFC BASE(P=1.0)L		
CX241	205 1225 900	24P FFC BASE(P=0.5)L		
CX561	205 1231 004	IDE CONNECTOR(56P)		
FB501,502	235 0130 903	CHIP EMIFIL(11A121)		
FB632	235 0158 901	CHIP BEADS(18PG121)		
FB660-663	235 0158 901	CHIP BEADS(18PG121)		
RA501,502	247 9002 909	MNR14=330JE0AB		
RA503-506	247 9007 904	MNR14=101JE0		
RA507-510	247 9007 917	MNR14=103JE0		
RA511	247 9002 909	MNR14=330JE0AB		
RA514	247 9002 909	MNR14=330JE0AB		
RA515	247 9007 917	MNR14=103JE0		
RA516	247 9002 909	MNR14=330JE0AB		
RA517	247 9007 917	MNR14=103JE0		
RA518	247 9002 909	MNR14=330JE0AB		
X501	399 0790 906	CSALS33M8X51-A0		

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Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP				
IC108	262 1953 903	TC7WU04F		
IC151	262 3139 000	TMP86CM47U-3RD2(AT)		
IC152	262 2642 909	SN74LV573APW-EL2		
IC153,154	262 2640 901	SN74LV245APW-EL2		
IC155	262 2517 908	SN74LV08APW-EL2		
IC157	262 2519 906	SN74LV00APW-EL2		
IC160	262 2519 906	SN74LV00APW-EL2		
IC161	262 2518 907	SN74LV74APW-EL2		
IC401	262 3115 008	ADSP-21065L(MP3)		
IC402,403	262 3042 003	128M SDRAM(TSOP)		
IC404,405	262 2642 909	SN74LV573APW-EL2		
IC406	262 2729 903	SN74LV02APW-EL2		
IC407	262 2516 909	SN74LV32APW-EL2		
IC409,410	262 2642 909	SN74LV573APW-EL2		
IC501	262 3044 001	MN102H730F		
IC502	262 3226 007	8M FLASH MEMORY(70N)		*
IC503	263 0913 905	PST600C TP		
IC504,505	262 2640 901	SN74LV245APW-EL2		
IC506	262 2518 907	SN74LV74APW-EL2		
IC507	262 2948 904	SN74LV86APW		
IC508	262 2959 906	SN74LV244APW		
IC509	262 3043 002	4M FLASH MEMORY(70N)		
IC510	262 2517 908	SN74LV08APW-EL2		
IC511	263 0615 902	BA15218F-DXE2		
IC512	262 3183 904	TA7291F		*
IC513	262 2518 907	SN74LV74APW-EL2		
IC601	262 2515 900	SN74LV04APW-EL2		
IC602	262 2813 903	SN74AHCT08PW-EL2		
IC603	263 1079 903	BA033FP		
IC605	263 1078 904	BA05FP		
IC651,652	262 2465 005	SM5902AF		
IC653,654	262 1953 903	TC7WU04F		
IC701,702	263 0615 902	BA15218F-DXE2		
IC705	262 3045 000	PCM1608Y		
IC706	262 1953 903	TC7WU04F		
IC708	262 2517 908	SN74LV08APW-EL2		
TR501,502	269 0082 902	DTC114EKT96		
TR701-704	273 0460 905	KTC2875B-RTK		
TR709	269 0083 901	DTA114EKT96		
TR710,711	269 0082 902	DTC114EKT96		
TR712	269 0083 901	DTA114EKT96		
TR713	273 0437 909	2SC2411K-T146		
TR714	269 0082 902	DTC114EKT96		
TR715	271 0260 905	2SA1036KT146(S/R)		
TR716,717	273 0460 905	KTC2875B-RTK		
D501	276 0559 909	DAP202KT146		
D601,602	276 0559 909	DAP202KT146		
D603,604	276 0560 901	DAN202KT146		
D651	276 0559 909	DAP202KT146		
D652	276 0560 901	DAN202KT146		
D653	276 0559 909	DAP202KT146		
D654	276 0560 901	DAN202KT146		
D701	276 0432 903	1SS270A TE (TAPE)		
RESISTORS GROUP				
R150	247 2003 947	RM73B--220JT		
R151-155	247 2009 983	RM73B--103JT		
R156	247 2007 943	RM73B--102JT		
R157	247 2009 925	RM73B--562JT		
R158-160	247 2009 983	RM73B--103JT		
R161-176	247 2003 947	RM73B--220JT		
R177-179	247 2009 983	RM73B--103JT		
R180	247 2003 947	RM73B--220JT		
R181,182	247 2018 903	RM73B--0R0KT		
R183	247 2014 965	RM73B--105JT		
R201-228	247 2003 989	RM73B--330JT		
R231,232	247 2018 903	RM73B--0R0KT		
R233	247 2003 947	RM73B--220JT		
R401-404	247 2005 903	RM73B--101JT		
R405-410	247 2009 983	RM73B--103JT		
R411,412	247 2005 903	RM73B--101JT		
R413,414	247 2009 983	RM73B--103JT		
R415-421	247 2005 903	RM73B--101JT		
R422,423	247 2009 983	RM73B--103JT		
R424-442	247 2005 903	RM73B--101JT		
R443,444	247 2009 983	RM73B--103JT		
R445-462	247 2005 903	RM73B--101JT		
R463	247 2009 983	RM73B--103JT		
R464-478	247 2005 903	RM73B--101JT		
R479	247 2009 983	RM73B--103JT		
R482-484	247 2009 983	RM73B--103JT		
R485	247 2008 913	RM73B--202JT		
R486	247 2009 983	RM73B--103JT		
R487-489	247 2005 903	RM73B--101JT		
R490,491	247 2003 947	RM73B--220JT		
R492	247 2018 903	RM73B--0R0KT		
R494	247 2009 983	RM73B--103JT		
R501-513	247 2003 947	RM73B--220JT		
R514	247 2010 956	RM73B--203JT		
R515	247 2003 947	RM73B--220JT		
R516	247 2007 943	RM73B--102JT		
R517,518	247 2009 983	RM73B--103JT		
R519-522	247 2003 947	RM73B--220JT		
R523,524	247 2009 983	RM73B--103JT		
R525	247 2010 901	RM73B--123JT		
R526-530	247 2009 983	RM73B--103JT		
R531,532	247 2003 947	RM73B--220JT		
R533	247 2009 983	RM73B--103JT		
R534	247 2009 938	RM73B--622JT		
R536-540	247 2009 983	RM73B--103JT		
R541-559	247 2003 947	RM73B--220JT		
R564	247 2018 903	RM73B--0R0KT		
R565	247 2006 915	RM73B--271JT		
R566	247 2007 943	RM73B--102JT		
R567	247 2018 903	RM73B--0R0KT		
R570-576	247 2009 983	RM73B--103JT		
R577	247 2011 942	RM73B--473JT		
R578,579	247 2009 983	RM73B--103JT		
R580	247 2011 942	RM73B--473JT		
R581	247 2009 983	RM73B--103JT		
R582	247 2018 903	RM73B--0R0KT		
R584	247 2003 947	RM73B--220JT		
R585	247 2018 903	RM73B--0R0KT		
R587	247 2007 943	RM73B--102JT		
R588	247 2007 985	RM73B--152JT		
R589,590	247 2018 903	RM73B--0R0KT		
R591,592	247 2011 942	RM73B--473JT		
R593,594	247 2009 983	RM73B--103JT		
R595,596	247 2003 947	RM73B--220JT		
R597	247 2009 983	RM73B--103JT		
R598	247 2018 903	RM73B--0R0KT		
R601	247 2003 947	RM73B--220JT		
R602,603	247 2005 903	RM73B--101JT		

Ref. No.	Part No.	Part Name	Remarks	New
R604,605	247 2008 913	RM73B--202JT		
R606-610	247 2003 947	RM73B--220JT		
R612	247 2003 947	RM73B--220JT		
R613-615	247 2011 942	RM73B--473JT		
R616,617	247 2009 983	RM73B--103JT		
R622-625	247 2011 942	RM73B--473JT		
R651-654	247 2009 983	RM73B--103JT		
R655	247 2005 987	RM73B--221JT		
R656-658	247 2003 947	RM73B--220JT		
R659-662	247 2009 983	RM73B--103JT		
R663	247 2005 987	RM73B--221JT		
R664	247 2003 947	RM73B--220JT		
R665-668	247 2007 943	RM73B--102JT		
R669	247 2006 960	RM73B--471JT		
R670	247 2014 965	RM73B--105JT		
R671	247 2004 975	RM73B--750JT		
R672	247 2018 903	RM73B--0R0KT		
R673	247 2006 960	RM73B--471JT		
R674	247 2014 965	RM73B--105JT		
R675	247 2004 975	RM73B--750JT		
R676	247 2018 903	RM73B--0R0KT		
R677,678	247 2008 942	RM73B--272JT		
R679	247 2009 983	RM73B--103JT		
R701,702	247 2010 998	RM73B--303JT		
R703,704	247 2009 970	RM73B--912JT		
R705,706	247 2009 938	RM73B--622JT		
R707,708	247 2011 913	RM73B--363JT		
R709,710	247 2010 998	RM73B--303JT		
R711,712	247 2007 901	RM73B--681JT		
R713,714	247 2008 942	RM73B--272JT		
R715,716	247 2010 998	RM73B--303JT		
R717,718	247 2009 970	RM73B--912JT		
R719,720	247 2009 938	RM73B--622JT		
R721,722	247 2011 913	RM73B--363JT		
R723,724	247 2010 998	RM73B--303JT		
R725,726	247 2007 901	RM73B--681JT		
R727,728	247 2008 942	RM73B--272JT		
R729-733	247 2009 912	RM73B--512JT		
R757	247 2006 960	RM73B--471JT		
R758	247 2010 956	RM73B--203JT		
R759	247 2012 996	RM73B--204JT		
R761	247 2006 915	RM73B--271JT		
R762	247 2006 960	RM73B--471JT		
R763-767	247 2003 947	RM73B--220JT		
R768,769	247 2006 915	RM73B--271JT		
R770	247 2003 947	RM73B--220JT		
R771	247 2007 901	RM73B--681JT		
R772	247 2014 965	RM73B--105JT		
R773-776	247 2005 987	RM73B--221JT		
R785,786	247 2006 960	RM73B--471JT		
R790,791	247 2003 947	RM73B--220JT		
R792	247 2018 903	RM73B--0R0KT		
R794	247 2007 943	RM73B--102JT		
R797	247 2007 943	RM73B--102JT		
R798	247 2012 925	RM73B--104JT		
CAPACITORS GROUP				
C111	257 0509 929	CK73B1H102KT		
C112	257 0511 904	CK73F1H103ZT		
C113	257 0512 903	CK73F1E104ZT		
C151	257 0509 929	CK73B1H102KT		
C153,154	257 0512 903	CK73F1E104ZT		
C155	254 4302 958	CE04W1A470MT(SRE)		

Ref. No.	Part No.	Part Name	Remarks	New
C156-160	257 0512 903	CK73F1E104ZT		
C164	257 0512 903	CK73F1E104ZT		
C168	257 0512 903	CK73F1E104ZT		
C401-411	257 0512 903	CK73F1E104ZT		
C412	254 4302 958	CE04W1A470MT(SRE)		
C413-423	257 0512 903	CK73F1E104ZT		
C424	257 0509 929	CK73B1H102KT		
C425,426	254 4302 958	CE04W1A470MT(SRE)		
C427	257 0512 903	CK73F1E104ZT		
C428	254 4302 958	CE04W1A470MT(SRE)		
C429-431	257 0512 903	CK73F1E104ZT		
C432	254 4302 958	CE04W1A470MT(SRE)		
C433,434	257 0512 903	CK73F1E104ZT		
C436	254 4302 958	CE04W1A470MT(SRE)		
C437-441	257 0512 903	CK73F1E104ZT		
C501	257 0512 903	CK73F1E104ZT		
C502	254 4302 958	CE04W1A470MT(SRE)		
C503	257 0512 903	CK73F1E104ZT		
C504,505	257 0503 909	CC73CH1H8R0DT		
C506	257 0512 903	CK73F1E104ZT		
C507	257 0506 951	CC73CH1H101JT		
C508,509	254 4302 958	CE04W1A470MT(SRE)		
C510,511	257 0512 903	CK73F1E104ZT		
C512	254 4302 958	CE04W1A470MT(SRE)		
C513	257 0512 903	CK73F1E104ZT		
C514	254 4302 958	CE04W1A470MT(SRE)		
C515	254 4299 906	CE04W1C100MT(SRE)		
C516	257 0509 929	CK73B1H102KT		
C517-522	257 0512 903	CK73F1E104ZT		
C523	254 4302 958	CE04W1A470MT(SRE)		
C524	257 0512 903	CK73F1E104ZT		
C525	257 0501 901	CK73B1H103KT (1608)		
C526	257 0512 903	CK73F1E104ZT		
C529	254 4299 964	CE04W1C470MT(SRE)		
C530-532	257 0512 903	CK73F1E104ZT		
C533	254 4299 951	CE04W1C330MT(SRE)		
C534	254 4538 942	CE04W1C101MT SMG/RE3		
C601-603	257 0512 903	CK73F1E104ZT		
C604	254 4302 974	CE04W1A101MT(SRE)		
C605	257 0512 903	CK73F1E104ZT		
C606	254 4302 974	CE04W1A101MT(SRE)		
C607,608	257 0512 903	CK73F1E104ZT		
C609-614	257 0508 917	CC73CH1H471JT		
C615	257 0512 903	CK73F1E104ZT		
C621	254 4536 957	CE04W1A471MT SMG/RE3		
C622	254 4299 964	CE04W1C470MT(SRE)		
C623,624	254 4305 968	CE04W1H010MT(SRE)		
C651	257 0512 903	CK73F1E104ZT		
C652	254 4536 928	CE04W1A101MT SMG/RE3		
C653	257 0512 903	CK73F1E104ZT		
C654	257 0506 951	CC73CH1H101JT		
C655	257 0512 903	CK73F1E104ZT		
C656	254 4536 928	CE04W1A101MT SMG/RE3		
C657	257 0512 903	CK73F1E104ZT		
C658	257 0506 951	CC73CH1H101JT		
C659-662	257 0508 917	CC73CH1H471JT		
C663	257 0509 929	CK73B1H102KT		
C664	254 4536 928	CE04W1A101MT SMG/RE3		
C665	257 0501 901	CK73B1H103KT (1608)		
C666	257 0512 903	CK73F1E104ZT		
C667	254 4254 925	CE04W1C330MT (SME)		
C668	257 0501 901	CK73B1H103KT (1608)		
C671	257 0501 901	CK73B1H103KT (1608)		
C672	257 0512 903	CK73F1E104ZT		
C674	257 0512 903	CK73F1E104ZT		
C675	257 0509 929	CK73B1H102KT		

Ref. No.	Part No.	Part Name	Remarks	New
C676	254 4536 928	CE04W1A101MT SMG/RE3		
C677	257 0501 901	CK73B1H103KT (1608)		
C678	257 0512 903	CK73F1E104ZT		
C679	254 4254 925	CE04W1C330MT (SME)		
C680	257 0501 901	CK73B1H103KT (1608)		
C683	257 0501 901	CK73B1H103KT (1608)		
C684	257 0512 903	CK73F1E104ZT		
C686	257 0512 903	CK73F1E104ZT		
C701,702	254 4538 900	CE04W1C100MT SMG/RE3		
C703,704	257 0506 951	CC73CH1H101JT		
C705,706	257 0512 903	CK73F1E104ZT		
C707,708	254 4541 900	CE04W1E100MT SMG/RE3		
C709,710	257 0509 929	CK73B1H102KT		
C711,712	254 4538 900	CE04W1C100MT SMG/RE3		
C713,714	257 0506 951	CC73CH1H101JT		
C715,716	257 0512 903	CK73F1E104ZT		
C717,718	254 4541 900	CE04W1E100MT SMG/RE3		
C719,720	257 0509 929	CK73B1H102KT		
C722	257 0506 951	CC73CH1H101JT		
C740,741	254 4299 964	CE04W1C470MT(SRE)		
C742	254 4536 928	CE04W1A101MT SMG/RE3		
C743	257 0512 903	CK73F1E104ZT		
C744	257 0506 951	CC73CH1H101JT		
C745	257 0512 903	CK73F1E104ZT		
C746	254 4536 915	CE04W1A470MT SMG/RE3		
C747	254 4299 906	CE04W1C100MT(SRE)		
C748,749	257 0503 967	CC73CH1H150JT		
C750	257 0511 904	CK73F1H103ZT		
C751	257 0512 903	CK73F1E104ZT		
C752	257 0509 929	CK73B1H102KT		
C753	254 4302 958	CE04W1A470MT(SRE)		
C754	257 0512 903	CK73F1E104ZT		
C773,774	257 0508 917	CC73CH1H471JT		
C775-778	257 0509 961	CK73B1H152KT		
C786-789	257 0508 917	CC73CH1H471JT		
OTHER PARTS GROUP				
CX31	205 0343 032	3P CONN.BASE(KR-PH)		
CX41	205 0343 045	4P CONN.BASE(KR-PH)		
CX42	205 0321 041	4P CONNE.BASE(RED)		
CX101	205 0375 000	10P CON.BASE(KR-PH)		
CX111	205 0375 013	11P CON.BASE(KR-PH)		
CX401	205 0429 024	40P PIN HEADER		
FB601,602	235 0130 903	CHIP EMIFIL(11A121)		
FB651,652	235 0130 903	CHIP EMIFIL(11A121)		
FB701	235 0130 903	CHIP EMIFIL(11A121)		
JK601,602	204 8665 007	2P MINI JACK		*
JK603,604	204 8664 008	3P PIN JACK		*
T651,652	231 8063 009	PULSE TRANS		
X102	399 0845 903	CSTCW33M0X51-R0		*
X151	399 0801 905	CSTCE8M00G52-RO		
X501	399 0846 009	X'TAL (34.0MHZ)		*
X701	399 0165 007	X'TAL (16.9344)		

GU-3483/3423A PANEL P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP				
IC101	262 3048 007	ML9207-01GP		
IC102	262 3227 006	TMP86CM47U-4K73(PN)		
IC103	262 2745 903	BU2090F(E2)		
IC201	262 2745 903	BU2090F(E2)		
IC251,252	269 0203 008	GP1A70R		
IC901	265 0112 003	STR-F6674		
IC902	262 3047 008	PC123 Y-22		
IC903	263 1113 005	SE005N		
TR101,102	272 0081 909	2SB766S(TAPE)		
D101-104	276 0559 909	DAP202KT146		
D901	276 0767 005	RBV-406		
D902	276 0730 906	AG01ZT (V1)		
D904-906	276 0730 906	AG01ZT (V1)		
D908	276 0784 004	FMB-G14		*
D909	276 0786 002	RN1Z		*
D910	276 0787 001	RN2Z		*
D911	276 0788 000	RN3Z		*
D912	276 0769 003	RK-44		
D913	276 0785 906	AW04		*
ZD901	276 0760 989	MTZJ7.5B T77		
ZD902	276 0760 905	MTZJ3.6B T77		
LD101	393 9605 900	SEL6427EP(TP5)		
LD102,103	393 9604 901	SEL6227S(TP5)		
LD104	393 9606 909	SEL6927A(TP5)		
LD105,106	393 9608 907	SLR342MC(TB7)		
LD107-110	393 9607 908	SLR342VC(TB7)		
LD111,112	393 9608 907	SLR342MC(TB7)		
LD113	393 9605 900	SEL6427EP(TP5)		
LD114,115	393 9604 901	SEL6227S(TP5)		
LD116	393 9606 909	SEL6927A(TP5)		
LD117-120	393 9620 901	SMLU79423C(TP15)		
LD126-129	393 9620 901	SMLU79423C(TP15)		
LD201	393 9608 907	SLR342MC(TB7)		
LD202-204	393 9610 908	SLR342YC(TB7)		
LD205	393 9605 900	SEL6427EP(TP5)		
LD206	393 9604 901	SEL6227S(TP5)		
LD207	393 9605 900	SEL6427EP(TP5)		
LD209	393 9543 910	SLR-325MC (GRN) TAPE		
LD210	393 9543 923	SLR-325DC (ORG) TAPE		
LD211	393 9543 907	SLR-325VC (RED) TAPE		
LD212	393 9605 900	SEL6427EP(TP5)		
LD213	393 9604 901	SEL6227S(TP5)		
LD214	393 9605 900	SEL6427EP(TP5)		
LD215,216	393 9625 003	LNW901BZFZ(BLUE)		
LD251,252	393 9604 901	SEL6227S(TP5)		
TH901	279 0044 002	NTH11D8R0LA		
RESISTORS GROUP				
R101,102	247 2005 990	RM73B--241JT		
R103-105	247 2006 902	RM73B--331JT (1608)		
R106	247 2007 927	RM73B--821JT		
R107	247 2006 944	RM73B--391JT		
R108,109	247 2005 987	RM73B--221JT		
R110-112	247 2006 902	RM73B--331JT (1608)		
R113	247 2005 945	RM73B--151JT		
R114	247 2005 990	RM73B--241JT		
R115	247 2005 945	RM73B--151JT		
R116	247 2005 990	RM73B--241JT		
R117	247 2005 945	RM73B--151JT		
R118	247 2005 990	RM73B--241JT		
R119	247 2005 945	RM73B--151JT		
R120	247 2005 990	RM73B--241JT		
R121,122	247 2018 903	RM73B--0R0KT		
R123	247 2006 902	RM73B--331JT (1608)		
R124,125	247 2005 987	RM73B--221JT		
R126	247 2005 945	RM73B--151JT		
R127	247 2005 990	RM73B--241JT		
R128	247 2005 945	RM73B--151JT		
R129	247 2005 990	RM73B--241JT		
R130	247 2005 945	RM73B--151JT		
R131	247 2005 990	RM73B--241JT		
R132	247 2005 945	RM73B--151JT		
R133	247 2005 990	RM73B--241JT		
R134	247 2003 947	RM73B--220JT		
R135	247 2006 944	RM73B--391JT		
R136	247 2007 927	RM73B--821JT		
R139-142	247 2007 943	RM73B--102JT		
R143-148	247 2004 904	RM73B--390JT		
R149	247 2007 901	RM73B--681JT		
R152-155	247 2009 983	RM73B--103JT		
R156,157	247 2018 903	RM73B--0R0KT		
R158	247 2011 942	RM73B--473JT		
R159,160	247 2009 983	RM73B--103JT		
R161-163	247 2009 983	RM73B--103JT	for E3	
R161-163	247 2007 943	RM73B--102JT	for E2	
R164	247 2011 942	RM73B--473JT		
R165	247 2009 983	RM73B--103JT		
R166-168	247 2011 942	RM73B--473JT		
R169-172	247 2003 947	RM73B--220JT		
R173-175	247 2007 943	RM73B--102JT		
R176-178	247 2009 983	RM73B--103JT	for E3	
R176-178	247 2009 983	RM73B--103JT	for E2	
R179	247 2011 942	RM73B--473JT	for E3	
R179	247 2009 983	RM73B--103JT	for E2	
R180,181	247 2009 983	RM73B--103JT	for E3	
R180,181	247 2009 983	RM73B--103JT	for E2	
R182	247 2018 903	RM73B--0R0KT		
R183,184	247 2012 925	RM73B--104JT		
R187	247 2011 942	RM73B--473JT		
R190	247 2011 942	RM73B--473JT		
R201-204	247 2005 987	RM73B--221JT		
R205	247 2007 901	RM73B--681JT		
R206,207	247 2006 902	RM73B--331JT (1608)		
R208,209	247 2005 990	RM73B--241JT		
R210-212	247 2005 945	RM73B--151JT		
R214	247 2005 945	RM73B--151JT		
R216	247 2005 961	RM73B--181JT		
R219	247 2006 944	RM73B--391JT		
R220	247 2006 915	RM73B--271JT		
R221	247 2005 961	RM73B--181JT		
R222	247 2005 945	RM73B--151JT		
R223	247 2007 901	RM73B--681JT		
R251-255	247 2009 983	RM73B--103JT		
R258	247 2005 974	RM73B--201JT		
R260	247 2005 974	RM73B--201JT		
R261,262	247 2005 987	RM73B--221JT		
R301-325	247 2018 903	RM73B--0R0KT		
R329-343	247 2018 903	RM73B--0R0KT		
R345-357	247 2018 903	RM73B--0R0KT		
R363-406	247 2018 903	RM73B--0R0KT		

Ref. No.	Part No.	Part Name	Remarks	New
R411,412	247 2018 903	RM73B--0R0KT		
R413	247 2006 902	RM73B--331JT (1608)		
R414,415	247 2018 903	RM73B--0R0KT		
R416,417	247 2003 947	RM73B--220JT		
R901	244 2675 716	RS14B3D683JNBF (ERG)		
R902	244 2671 956	RS14B3DR47JNBST(S)		
R913-922	247 2011 968	RM73B--563JT		
VR251	211 5648 009	SLIDE VOLUME(100MM)		*
VR252	211 5650 000	STICK CONTROLLER		*

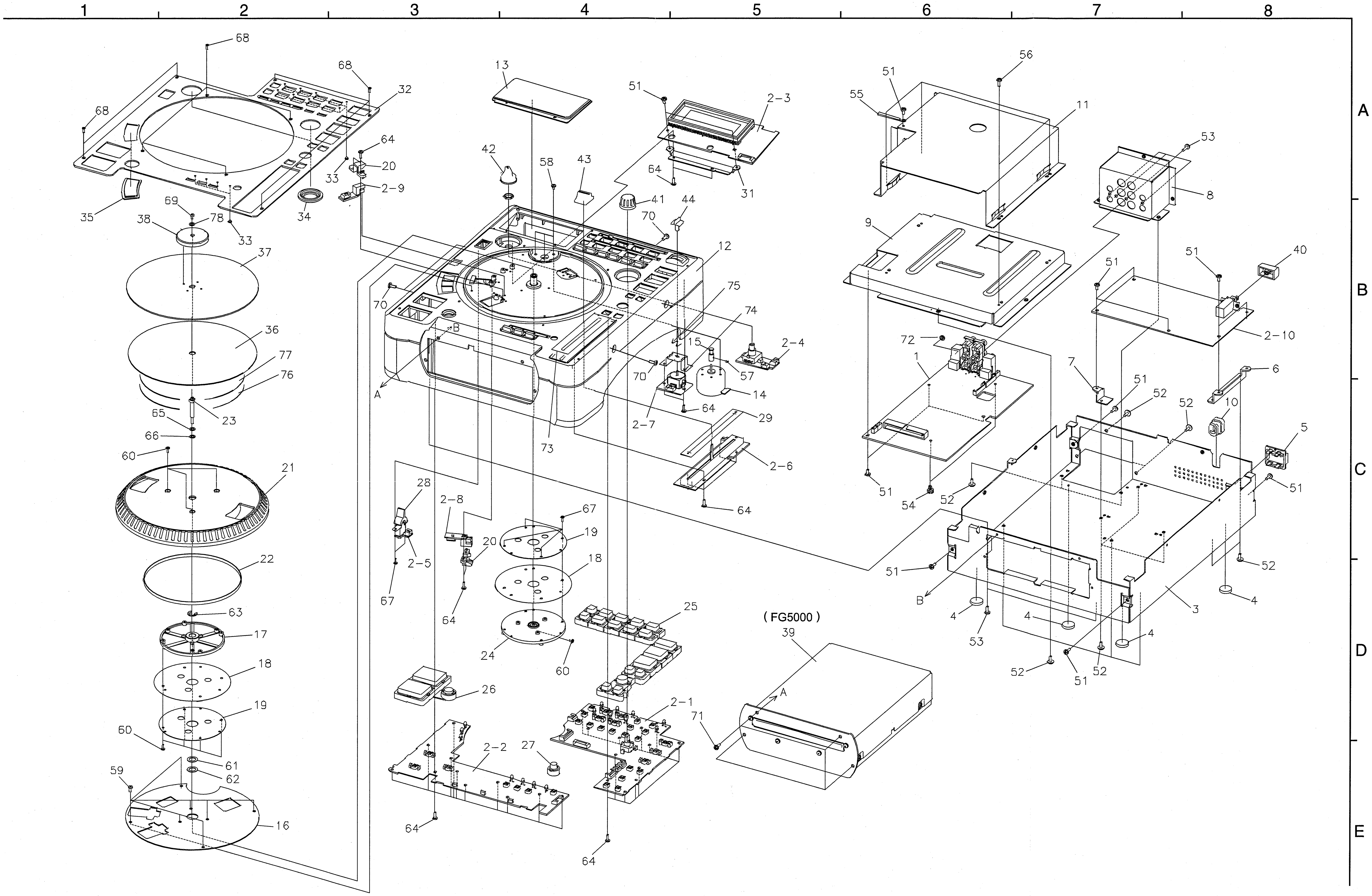
CAPACITORS GROUP

Ref. No.	Part No.	Part Name	Remarks	New
C101,102	257 0509 929	CK73B1H102KT		
C103-105	257 0512 903	CK73F1E104ZT		
C106	257 0511 904	CK73F1H103ZT		
C107	254 4193 947	CE04W1C101MT (SRA)		
C108	257 0512 903	CK73F1E104ZT		
C109,110	254 4302 958	CE04W1A470MT(SRE)		
C111	257 0512 903	CK73F1E104ZT		
C112	257 0501 901	CK73B1H103KT (1608)		
C113	257 0512 903	CK73F1E104ZT		
C114	257 0501 901	CK73B1H103KT (1608)		
C116,117	257 0512 903	CK73F1E104ZT		
C118	254 4302 958	CE04W1A470MT(SRE)		
C123-126	257 0511 920	CK73F1H473ZT		
C127	257 0512 903	CK73F1E104ZT		
C128	257 0511 904	CK73F1H103ZT		
C129	257 0512 903	CK73F1E104ZT		
C130	257 0511 904	CK73F1H103ZT		
C131	257 0512 903	CK73F1E104ZT		
C132	257 0511 904	CK73F1H103ZT		
C133	257 0512 903	CK73F1E104ZT		
C134	257 0511 904	CK73F1H103ZT		
C135	257 0512 903	CK73F1E104ZT		
C140,141	257 0511 904	CK73F1H103ZT		
C143	257 0512 903	CK73F1E104ZT		
C144	257 0511 904	CK73F1H103ZT		
C145,146	257 0512 903	CK73F1E104ZT		
C201,202	257 0512 903	CK73F1E104ZT		
C203	254 4302 958	CE04W1A470MT(SRE)		
C204	257 0512 903	CK73F1E104ZT		
C205	257 0511 904	CK73F1H103ZT		
C206	257 0512 903	CK73F1E104ZT		
C207	257 0511 904	CK73F1H103ZT		
C208	257 0512 903	CK73F1E104ZT		
C251-255	257 0512 903	CK73F1E104ZT		
C261	253 8022 707	CK45F2EAC103MC		
C261	415 0299 000	CONDENSER COVER	for E2	
C902	256 8038 017	CF99--2EAC224M		
C903	256 8038 004	CF99--2EAC104M		
C904	254 4633 708	CE04W2D151MC(KMH)22S	for E3	*
C904	254 4616 712	CE04W2G151MC(KMH)25C	for E2	*
C905	253 4546 724	CC45SL3D561JC		*
C906	253 4452 902	CC45SL1H471JT		
C907	253 9030 963	CK45=1E103KT		
C908	254 4423 905	CE04W1V470MT(KMG)		
C910	253 8029 700	CK45F2EAC222MC (KX)		
C910	415 0866 006	CONDENSER COVER		
C911	253 1118 906	CK45B1H332KT		
C912	253 4546 724	CC45SL3D561JC		*
C913	254 4629 709	CE04W1C152MC(LXV)K25		*
C914	254 4632 709	CE04W1H471MC(LXV)K25		*
C915	254 4630 905	CE04W1E820MT(LXV)F11		*
C916	253 9031 904	CK45=1E473KT		
C917	254 4628 904	CE04W1C331MT(LXV)H15		*
C918	254 4631 700	CE04W1E222MC(LXV)K40		*
C919	254 4538 939	CE04W1C470MT SMG/RE3		
C922	254 4539 705	CE04W1C102MC SMG/RE3		
C923	253 8029 700	CK45F2EAC222MC (KX)		

OTHER PARTS GROUP

Ref. No.	Part No.	Part Name	Remarks	New
AS901	417 0610 009	HEAT SINK(OSH-2430)		
CW31	203 5280 039	3P KR-DS CONN.CORD		*
CW32	203 5280 026	3P KR-DS CONN.CORD		*
CW33	203 5280 013	3P KR-DS CONN.CORD		*
CW41	203 6393 048	4P KR-DS CON CORD		*
CW42	203 6393 022	4P KR-DS CON CORD		*
CW43	203 6393 035	4P KR-DS CON CORD		*
CW81	204 2481 025	8P KR-DS CON.CORD		*
CW91	204 2464 013	9P KR-DS CONN.CORD		*
CW101	204 2412 049	10P KR-DS CONNE.CORD		*
CX21	205 0581 001	2P VH CONNECTOR BASE		
CX32,33	205 0355 033	3P KR CON BASE(L)		
CX42,43	205 0355 046	4P KR CON BASE(L)		
CX81	205 0355 088	8P KR CON BASE(L)		
CX91	205 0355 091	9P KR CON BASE(L)		
CX911	205 0375 013	11P CON.BASE(KR-PH)		
CX941	205 0653 049	4P VH CON.BASE		
⚠ F901	206 1087 015	FUSE (ET1A)	for E3	
⚠ F901	206 1087 028	FUSE (ET2A)	for E2	
F901	GEN6256-2	FUSE LABEL SUB ASS'Y	for E2	
FB901	235 0049 900	BEADS INDUCTOR TAPE		
FF901	202 0040 909	FUSE CLIP (TAPE)		
FH901	202 0040 909	FUSE CLIP (TAPE)		
FL101	393 8063 006	FLT(24-ST-09GN)		
L901	235 0157 009	PLA10AN7720R7D2B		
L902	235 0156 903	COIL LHL10TB220KT		
S101-120	212 5604 907	TACT SWITCH-TA(ALPS)		
S122-125	212 5604 907	TACT SWITCH-TA(ALPS)		
S140	212 0410 002	ROTARY ENCODER-JOG		
S201-207	212 5604 907	TACT SWITCH-TA(ALPS)		
S251	212 0492 004	ROTARY SW		*
S252	212 0495 001	TOGGLE SW(PADORU)		*
S261	212 1176 015	POWER SWITCH(TV-5)		
T901	233 0654 001	SW TRANSFORMER		
X101	399 0661 909	CSTS4.00MG06		
X102	399 0805 901	CSTLS16M0X53-A0		
★	471 3305 027	3X10 CBS	for E2	

EXPLODED VIEW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Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A. model, Csnada model
E2: Europe model

PARTS LIST OF EXPLODED VIEW

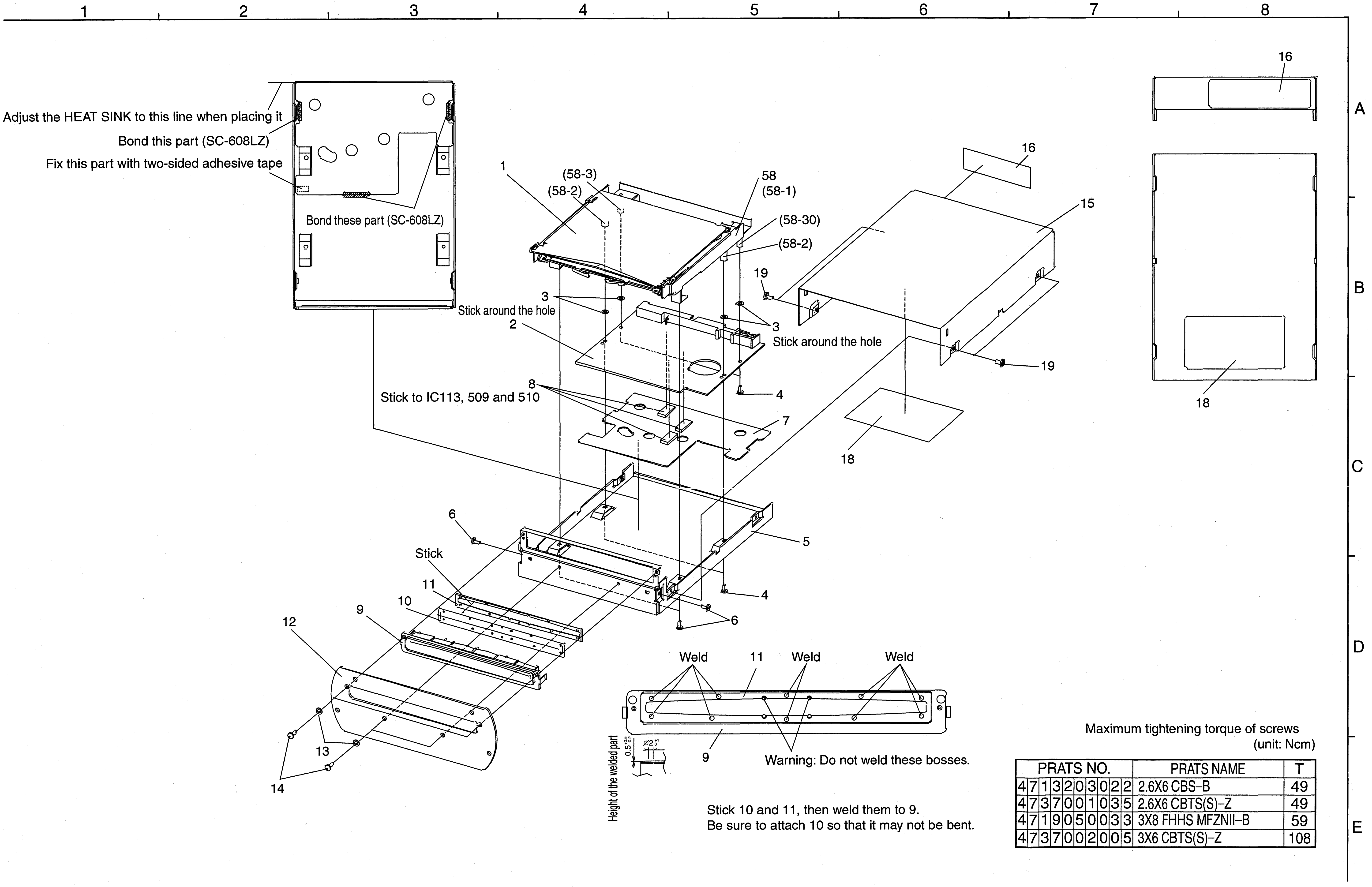
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	GU-3482	DSP PWB UNIT		1	
2	GU-3483	PANEL PWB UNIT	for E3	1	
2	GU-3483A	PANEL PWB UNIT	for E2	1	
2-1		PANEL UNIT			
2-2		PANEL2 UNIT			
2-3		FLT UNIT			
2-4		SCRATCH SOURCE UNIT			
2-5		SCRATCH DIR UNIT			
2-6		SLIDE VR UNIT			
2-7		SCAN VR UNIT			
2-8		DISC SENSOR UNIT			
2-9		TABLE SENSOR UNIT			
2-10		POWER UNIT			
3	411 2027 207	CHASSIS		1	*
4	461 0706 127	FOOT SHEET		4	
5	146 2302 002	P.SW KNOB GUIDE		1	*
6	412 4921 003	PWB BRACKET		1	
7	412 5003 001	PWB SUPPORT		3	*
8	412 5004 107	JACK BRACKET		1	*
9	412 5005 009	MAIN BRACKET		1	*
10	445 0084 009	CORD BUSH	for E3	1	
10	445 0056 008	CORD BUSH	for E2	1	
11	412 5006 008	MECHA COVER		1	*
12	146 2303 108	INNER COVER ASS'Y		1	*
13	146 2305 009	WINDOW		1	
14	217 0181 006	LOADING MOTOR		1	
15	422 0670 106	MOTOR PULLY		1	*
16	441 1974 006	BASE PLATE		1	*
17	421 0798 001	PLATTER HOLDER		1	*
18	421 0799 000	SCALE DISK		2	*
19	441 1975 005	DISK FIX PLATE		2	*
20	443 1573 005	S.COVER (GP1A70R)		2	
21	421 0808 001	PLATTER (TK)		1	*
22	423 0079 108	BELT		1	*
23	422 0669 201	DISC HOLDER SHAFT		1	*
24	421 0801 105	WHEEL ASS'Y		1	*
25	119 0118 102	R.KEY (FUNCTION)		1	*
26	119 0119 208	R KEY (PLAY/PAUSE)		1	*
27	119 0120 006	R.KEY (PITCH)		1	*
28	113 1950 002	TOGGLE SW KNOB		1	*
29	122 0241 004	BLIND SHEET (SL)		1	*
31	412 5007 007	FL BRACKET		1	*
32	144 2823 103	TOP PANEL		1	*
33	143 1163 007	LENS		12	
34	146 2306 008	KNOB (MARU) LENS		2	
35	146 2307 007	WINDOW (SELECT)		1	
36	421 0802 007	SLIP MAT		1	*
37	421 0803 103	SLIP DISC		1	*
38	421 0804 209	STABILIZER		1	*
39	FG5000	DRIVE UNIT		1	*
40	113 1689 001	P.SW KNOB		1	
41	112 0902 003	KNOB (MARU)		1	*
42	112 0903 002	SELECT KNOB		1	*
43	113 1951 001	FADER KNOB		1	*

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
44	113 1952 107	SEARCH KNOB		1	*
54	412 2814 031	CARD SPACER (L=4)		2	
55	445 8028 009	CORD HOLDER		1	
61	475 1187 003	WASHER 13/8.2		1	*
62	475 1161 058	WASHER 8.2/12		2	*
63	476 1006 006	6 E RING ZNP		1	
65	475 1187 016	WASHER 7/4.1		1	*
66	475 1161 016	WASHER		1	*
72	461 1150 002	SP WASHER	for E2	1	
73	146 2308 103	FADER PLATE		1	*
74	412 5027 003	VR BRACKET	for E2	1	*
75	463 0957 008	SPRING	for E2	1	*
76	421 0810 002	ANTI-STATIC SHEET		1	
77	421 0809 000	SLIP SHEET		1	
78	475 1187 029	WASHER 5/2.2		1	
★	204 6752 006	40P FLAT CABLE	CX401	1	*
★	203 6577 000	4P LC-VH CON.CORD	CX941	1	
⚠ ★	206 2155 001	AC CORD W/CON.E3	for E3	1	
⚠ ★	206 2089 106	AC CORD W/CON.E2	for E2	1	
★	445 8028 009	CORD HOLDER		1	
★	203 6596 007	4P PH CON CORD		1	*
★	445 0033 005	WIRE CLAMP BAND		2	
★	204 6307 037	11P KR-KR CON.CORD	CW911	1	*
★	342 0027 000	FERRITE CORE		1	
★	513 3870 005	RATING SHEET	for E3	1	*
★	513 3870 018	RATING SHEET	for E2	1	*
★	513 2303 007	VERSION LABEL		1	
★	513 1519 009	MANUFAC.DATE LABEL	for E3	1	
★	513 3776 002	E3 LABEL	for E3	1	
★	513 3384 009	C-UL MARK US (813)	for E3	1	
★	513 3159 001	FCC/CLASS B CAUTION	for E3	1	
★	513 0985 003	INST LABEL	for E2	1	
★	513 2521 009	CE LABEL	for E2	1	
★	513 3253 004	C-TICK LABEL	for E2	1	

SCREWS

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
51	473 7002 005	3X6 CBTS(S)-Z		15	
52	473 8007 083	3X8 CUP SCREW		14	
53	473 7500 044	3X8 CBTS (P)-B		4	
56	473 7015 005	3X6 CBTS(S)-B		4	
57	474 4300 004	2.6X4 BSS (A)		1	
58	471 3202 010	2.6X5 CBS		2	
59	473 7505 010	2.6X6 CBTS (P)-Z		7	
60	471 3103 012	2X6 CBS		8	
64	473 7505 007	2.6X8 CBTS (P)-Z		35	
67	473 7506 022	2X6 CBTS(P)-B		6	
68	473 8087 003	2X6 CFTS(B)-B		9	*
69	475 5122 006	2X4 HSHB		1	*
70	473 7002 021	3X8 CBTS (S)-B		5	
71	471 1832 013	M3-SEMS SCREW(6W)		4	*

EXPLODED VIEW OF CD DRIVE UNIT (FG-5000)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58
(58-1)
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(58-2)
(58-3)
(58-30)
Weld
Weld
Weld
Height of the welded part
0.5
Ø2

Adjust the HEAT SINK to this line when placing it

Bond this part (SC-608LZ)

Fix this part with two-sided adhesive tape

Bond these part (SC-608LZ)

Stick around the hole

Stick around the hole

Stick to IC113, 509 and 510

Stick

Warning: Do not weld these bosses.

Stick 10 and 11, then weld them to 9.
Be sure to attach 10 so that it may not be bent.

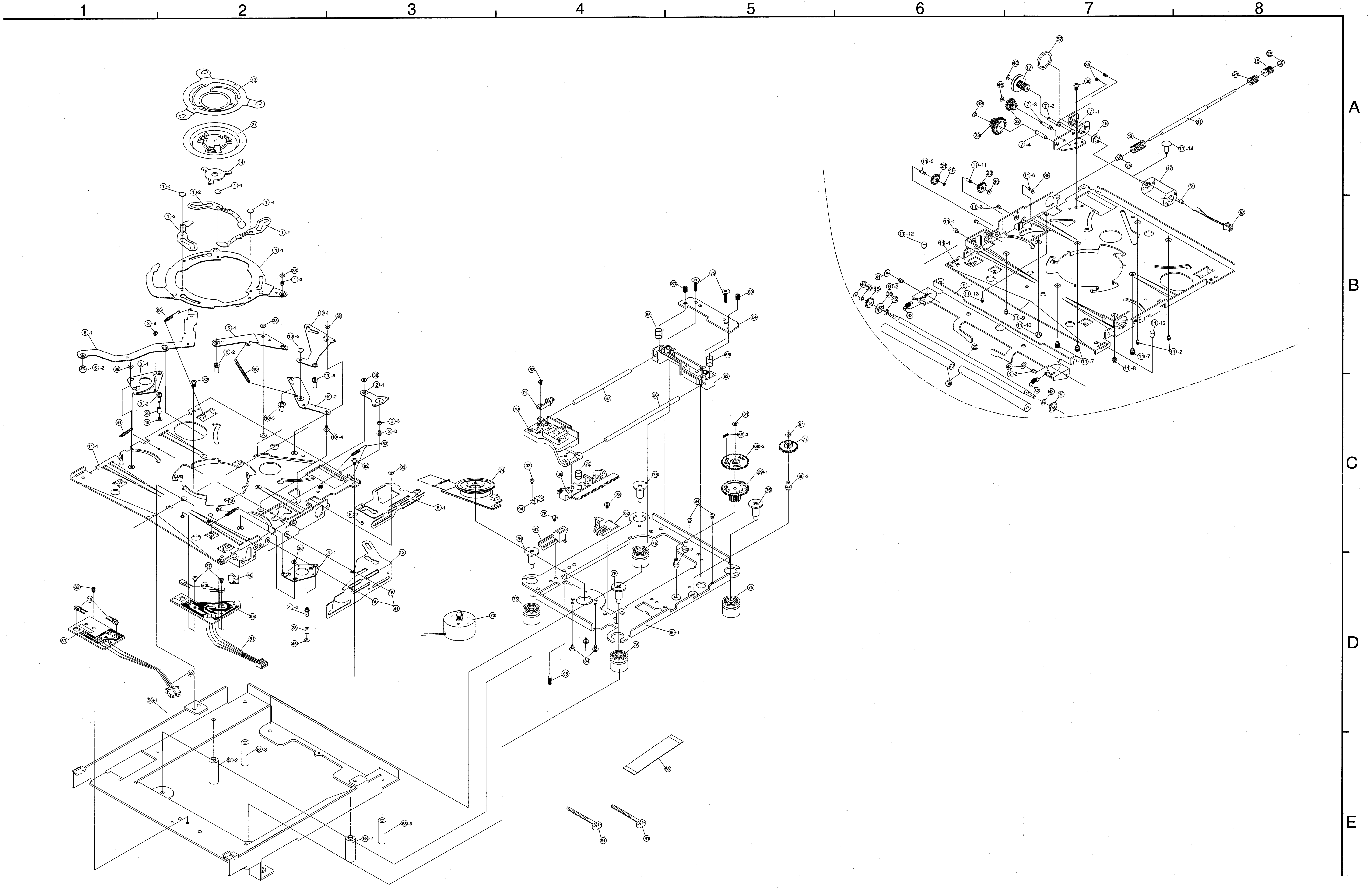
Maximum tightening torque of screws
(unit: Ncm)

PRATS NO.	PRATS NAME	T
4713203022	2.6X6 CBS-B	49
4737001035	2.6X6 CBTS(S)-Z	49
4719050033	3X8 FHHS MFZNII-B	59
4737002005	3X6 CBTS(S)-Z	108

PARTS LIST OF CD DRIVE UNIT (FG-5000)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	9KA 2A49 6A	DRIVE UNIT	TD-S202H2D (FG5000MECHA)ASS'Y	1	*
2	GU-3414	CD-ROM PWB UNIT		1	
3	415 0900 001	PROTECT SHEET		4	*
5	412 4997 008	DRIVE BRACKET		1	*
7	-	HEAT SINK		1	
8	9KC 2G03 9A	HEAT PAD		3	
9	146 2296 309	DISC GUIDE		1	*
10	415 0897 004	BLIND SHEET		1	*
11	415 0898 003	FIX PLATE		1	*
12	144 2816 107	DRIVE PANEL		1	*
15	102 0657 018	DRIVE COVER		1	*
16	513 3797 007	CONNECT LABEL		1	
18	513 3826 004	E2 LASER CAUTION		1	
58	441 1972 105	MAIN BASE ASS'Y		1	*
58-1		MAIN BASE		1	
58-2		PWB SHAFT		2	
58-3		PWB SHAFT		2	
SCREWS					
4	471 3203 022	2.6X6 CBS-B		4	
6	473 7001 035	2.6X6 CBTS (S)-Z		4	
13	475 1178 009	3W-B		4	
14	471 9050 033	3X8 FHHS MFZNII-B		4	
19	473 7002 005	3X6 CBTS(S)-Z		4	

EXPLODED VIEW OF CD MECHANISM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PARTS LIST OF CD MECHANISM UNIT (TD-S202SA(D))

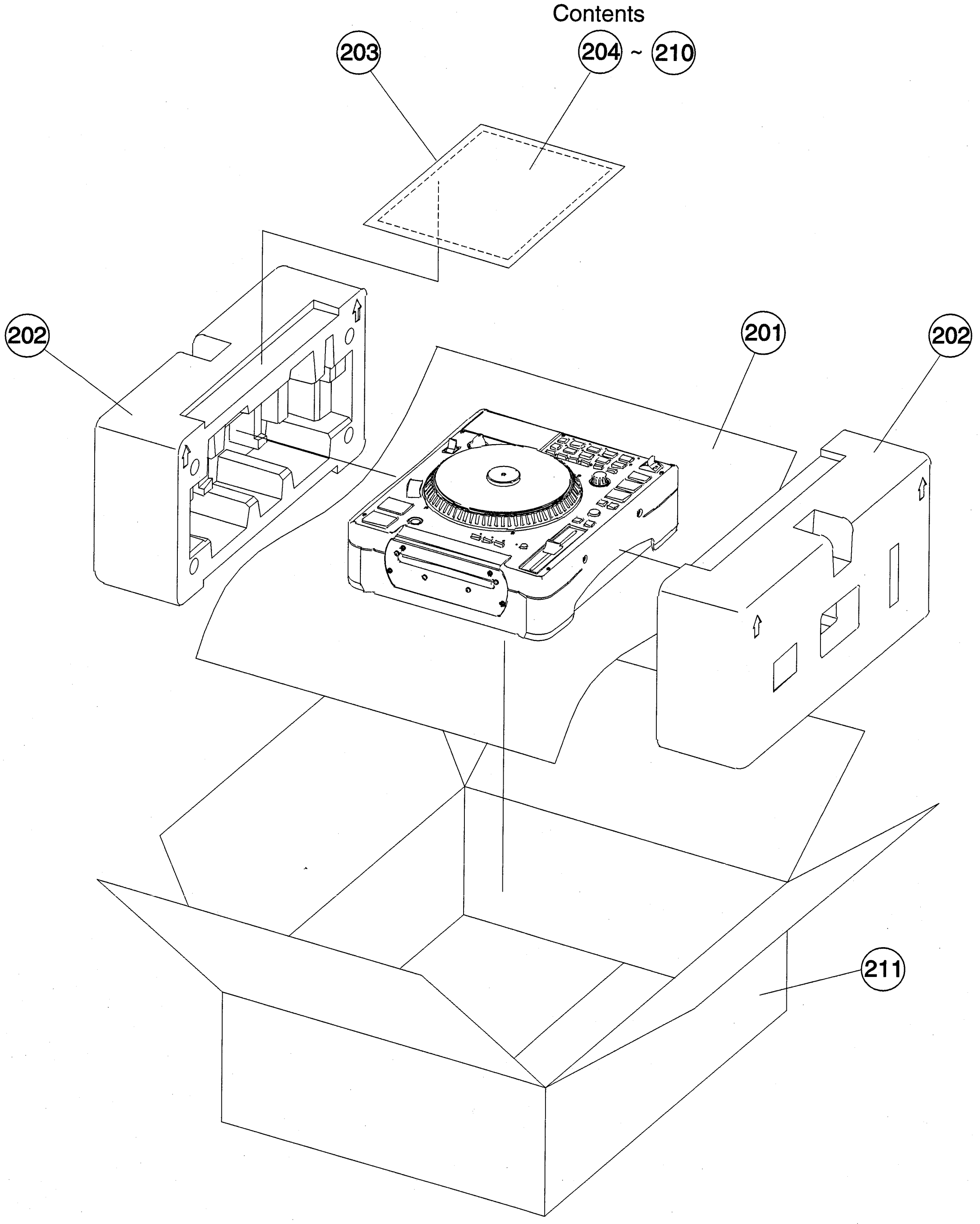
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	9KC 8A00 1	CLAMPER-PLATE ASSY		(1)	
1-1		CLAMPER-PLATE		1	
1-2		LIFTER-CAM		3	
1-3		CL-PLATE-SFT		1	
1-4		LIFTER-CAM-SFT		3	
2	9KC 8A00 2	TIMING-LEVER ASSY		(1)	
2-1		TIMING-LEVER		1	
2-2		T-LEVER-SHAFT		1	
2-3		T-LEVER-COLOR		1	
3	9KC 8A00 3	D-G-LEVER-L ASSY		(1)	
3-1		D-GUIDE-LEVER-L		1	
3-2		DISC-OPEN-SFT-L		1	
3-3		CLP-GUIDE-SFT		1	
4	9KC 8A00 4	D-G-LEVER-R ASSY		(1)	
4-1		D-GUIDE-LEVER-R		1	
4-2		DISC-OPEN-SFT-R		1	
5	9KC 8A00 5	LINK-LEVER-L ASSY		(1)	
5-1		LINK-LEVER-L		1	
5-2		D-SELECT-SHAFT		1	
6	9KC 8A00 6	D-SELECT-LEVER ASSY		(1)	
6-1		DISC-SELECT-LEVER		1	
6-2		D-SELECT-SFT-A		1	
7	9KC 8A00 7	GEAR-BASE ASSY		(1)	
7-1		GEAR-BASE		1	
7-2		TWIN-GEAR-SHAFT		1	
7-3		C-GEAR-A-SHAFT		1	
7-4		C-GEAR-B-SHAFT		1	
8	9KC 8A00 8	RACK-PLATE ASSY		(1)	
8-1		RACK-PLATE		1	
8-2		RACK-PLATE-SHAFT		1	
9	9KC 8A00 9	ROLLER-BASE ASSY		(1)	
9-1		ROLLER-BASE		1	
9-2		R-B-SHAFT-L		1	
9-3		R-B-SHAFT-R		1	
10	9KC 8A01 0	LINK-CHANGE ASSY		(1)	
10-1		LINK-LEVER-R		1	
10-2		CHANGE-LEVER		1	
10-3		C-LEVER-SFT-A		1	
10-4		C-LEVER-SFT-B		1	
10-5		C-LEVER-SFT-C		1	
10-6		D-SELECT-SHAFT		1	
11	9KC 8A01 5	LOADER-BASE ASSY		(1)	
11-1		LOADER-BASE		1	
11-2		LEVER-SHAFT		2	
11-3		CAM-SHAFT		2	
11-4		CAM-GUIDE-SFT		1	
11-5		ROLLER-GEAR-SFT		1	
11-6		L-P-GUIDE-SFT-A		1	
11-7		CLAMP-GUIDE-SFT		3	
11-8		D-G-A-SHAFT-L		1	
11-9		D-G-A-SHAFT-R		1	
11-10		TIMING-LVR-SFT-N		1	
11-11		GEAR-LOAD-SFT		1	
11-12		D-G-SHAFT		2	
11-13		L-P-GUIDE-SFT-B		1	
11-14		EJECT-GUIDE-SFT		1	
12	9KC 8P01 4	CAM-R		1	
13	9KC 8P01 5	CLAMPER-TOP		1	
14	9KC 8P01 6	CLAMPER-YOKE		1	
15	9KC 8G00 1	ROLLER-GEAR		1	
16	9KC 8G00 2	MOTOR-PULLY		1	
17	9KC 8G00 3	PULLY-GEAR		1	
18	9KC 8G00 4	HERICAL-GEAR		1	
19	9KC 8G00 5	WORM-LOAD		1	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
20	9KC 8G00 6	GEAR-LOAD-A		1	
21	9KC 8G00 7	IDLE-GEAR-ROLLER		1	
22	9KC 8G00 8	CHUCK-GEAR-A		1	
23	9KC 8G00 9	CHUCK-GEAR-B		1	
24	9KC 8G01 0	WORM-CHUCK		1	
25	9KC 8G01 1	SHAFT-CAP		2	
26	9KC 8G01 2	BERRING-ROLLER		2	
27	9KC 8G01 3	CLAMPER		1	
28	9KC 8G01 4	DISC-OPEN-COLOR		2	
29	9KC 8H02 8	ROLLER-SHAFT		1	
30	9KC 8H02 9	ROLLER-COLOR		1	
31	9KC 8H03 0	WORM-SHAFT		1	
32	9KC 8S00 6	ROLLER-SPRING		2	
33	9KC 8S00 8	LEVER-SPRING		1	
34	9KC 8S00 5	D-GUIDE-SP		2	
38	9KP 16C3 25	PSW1.6X3.5X0.25C(BLACK)		7	
39	9KP 12CR 32	PSW1.2X3.2X0.25C(RED)		3	
40	9KC 8S00 7	C-LEVER-SPRING		1	
41	9KP 16C5 04	PSW1.6X5X0.4C(BLACK)		3	
42	9KP 22W4 13	PSW2.2X4X0.13		2	
43	9KC 8P02 9	SPRING-WASHER		1	
45	9KP 12C2 02	PSW1.2X2.0X0.25C		3	
46	9KP 12C4 04	PSW1.2X4X0.4C		3	
47	9KM 01T2 78	M1N10FB10K	MATSUSHITA	1	
48	9KS 01W2 05	ESE22MH23	MATSUSHITA	1	
49	9KE 01L9 76	PT4800		2	
50	9KE 01L9 75	GL4800	SHARP	2	
51	9KC 8G03 6	CNW4P-TL-S		1	
52	9KC 8G03 4	CNW2P-TL-S		1	
53	9KC 8G03 5	CNW3P-TL-S		1	
54	9KC 5G02 2	∅2.5X3 TUBE(BLACK)		1	
55	9KC 8P01 7	SW-PCB		1	
56	9KC 8G03 2	ROLLER		2	
57	9KC 8G01 7	LOADING BELT-L		1	
58	9KA 2A47 9	MAIN BASE ASSY		(1)	*
58-1		MAIN BASE		1	
58-2		PWB SHAFT		2	
58-3		PWB SHAFT		2	
59	9KC 8P01 9	SENSOR-PCB		1	
	9KC 7A00 7A	TRAVERSE UNIT(FEED)ASSY	60-74,77-81, 83,84,93-95Ass'y	(1)	
	9KC 7A00 8A	TRAVERSE UNIT ASSY	60-72,74,77-81, 83,84,93-95Ass'y	(1)	
60		CHASSIS-PU-TDT ASSY		(1)	
60-1		CHASSIS-PU-TDT		1	
60-2		SFT-G-2ND-84M		1	
60-3		SFT-G-3RD-2MP		1	
61		HLD-SFT-L-84H		1	
62		HLD-SFT-R-84H		1	
63		BASE TILT-84H		1	
64		PLATE TILT-84H		1	
65		TILT SP		2	
66		RAIL		1	
67		S-GUIDE BAR-84H		1	
68		RACK PU-84H		1	
69		GEAR 2ND ASSY		(1)	
69-1		GEAR 2nd(A)		1	
69-2		GEAR 2nd(B)		1	
69-3		SPG GEAR 2ND		1	
70		PICK UP HOP-1200R		1	
71		SPG PICK-84H		1	
72		SPG RACK-84H		1	
73	9KC 2A02 3	MOTOR FEED-2HP ASSY		(1)	
73-1		MDN3BL4FPQ		1	
73-2		GEAR 1ST 2MP		1	
73-3		PSW1.95X3.5X0.25		1	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
74		T/T MOTOR ASSY		(1)	
74-1		TABLE-M32		1	
74-2		MAGNET-M32		1	
74-3		RUBBER-M32		1	
74-4		BACK YOKE-M32		1	
74-5		T.T BUSH-SLOT-NI		1	
74-6		BML5E7CRS		1	
75	9KC 2G08 3	DAMPER IDLE		4	
76	9KC 1H01 1	SCW-DAMPER		4	
77		GEAR 3rd 2MP		1	
81		PSW2.1X4X0.25C		2	
86	9KC 8S00 9	LEVER-SPRING-S		1	
88	9KC 2P11 4	FFC-0.5-24P L60		1	
91	9KM 01N1 22	NYLON BAND 80		2	
94		SPRING-RAIL-84H		1	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SCREWS					
35	9KS 14N1 02	M1.4X2 PRECISION SCREW	TYPE-1	2	
36	9KS 20N3 03	M2X3 PRECISION SCREW	TYPE-3	1	
37	9KS 17N0 15	M1.7X1.5 PRECISION SCREW	TYPE-3	2	
78	9KB 26TK 06	M2.6X6 SCREW	S	2	
79	9KH 26TK 15	M2.6X15 SCREW	S	2	
80	9KB 7H00 8	M3X4 SCREW		2	
82	9KB 20TK 04	M2X4 SCREW	S	3	
83	9KS 17B3 05	M1.7X5 PRECISION SCREW	B TYPE-3	1	
84	9KS 17N0 22	M1.7X2.2 PRECISION SCREW	TYPE-3	5	
93	9KB 26TK 04	M2.6X4 SCREW	S	1	
95	9KC 2H00 4	M3X8 HEXAGON S. S. SCREW		1	

PACKING VIEW



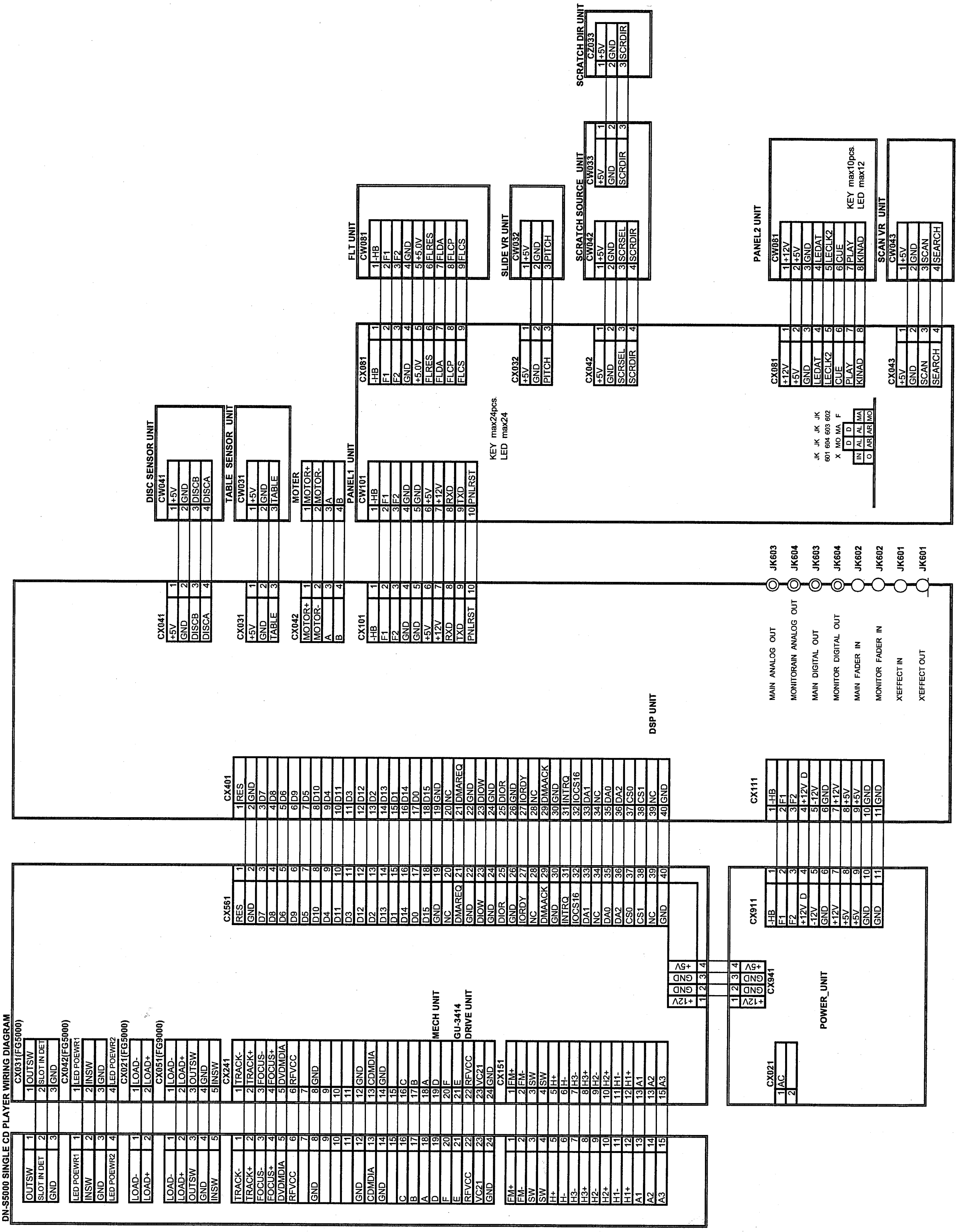
Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A. model, Csnada model
E2: Europe model

PARTS LIST OF PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
201	505 0350 019	STYLEN PAPER		1	*
202	503 1448 005	CUSHION		2	*
203	505 0038 030	POLY COVER		1	
204	515 0945 007	WARRANTY (COM.)	for E3	1	
205	511 3976 000	INST. MANUAL		1	*
206	515 0923 100	S.S.LIST COM.(EX)		1	
207	203 2360 004	2P PIN CORD		2	
208	505 8006 006	ENVELOPE		1	
209	423 0079 108	BELT		1	*
210	529 0128 001	HEXAGON WRENCH		1	*
211	501 2230 009	CARTON CASE	for E3	1	*
211	501 2179 050	CARTON CASE	for E2	1	*
★	-	CONTROL CARD		2	
★	-	BAR CODE LABEL		1	

WIRING DIAGRAM

DN-S5000 SINGLE CD PLAYER WIRING DIAGRAM


SCRATCH DIR UNIT
CZ033: 1 +5V, 2 GND, 3 SCRDIR
SCRATCH SOURCE UNIT
CW033: +5V 1, GND 2, SCRDIR 3
CW042: 1 +5V, 2 GND, 3 SCRSEL, 4 SCRDIR
FLT UNIT
CW081: 1 -HB, 2 F1, 3 F2, 4 GND, 5 +5.0V, 6 FLRES, 7 FLDA, 8 FLCP, 9 FLCS
SLIDE VR UNIT
CW032: 1 +5V, 2 GND, 3 PITCH
PANEL2 UNIT
CW081: 1 +12V, 2 +5V, 3 GND, 4 LEDAT, 5 LECLK2, 6 CUE, 7 PLAY, 8 KINAD
KEY max10pcs.
LED max12
SCAN VR UNIT
CW043: 1 +5V, 2 GND, 3 SCAN, 4 SEARCH
PANEL1 UNIT
CX081: -HB 1, F1 2, F2 3, GND 4, +5.0V 5, FLRES 6, FLDA 7, FLCP 8, FLCS 9
CX032: +5V 1, GND 2, PITCH 3
CX042: +5V 1, GND 2, SCRSEL 3, SCRDIR 4
CX081: +12V 1, +5V 2, GND 3, LEDAT 4, LECLK2 5, CUE 6, PLAY 7, KINAD 8
CX043: +5V 1, GND 2, SCAN 3, SEARCH 4
KEY max24pcs.
LED max24
JK 601, JK 604, JK 603, JK 602
X, MO, MA, F
D, D
IN, AL, AL, MA
O, AR, AR, MO
CW101: 1 -HB, 2 F1, 3 F2, 4 GND, 5 GND, 6 +5V, 7 +12V, 8 RXD, 9 TXD, 10 PNLRST
DISC SENSOR UNIT
CW041: 1 +5V, 2 GND, 3 DISCB, 4 DISCA
TABLE SENSOR UNIT
CW031: 1 +5V, 2 GND, 3 TABLE
MOTER: 1 MOTOR+, 2 MOTOR-, 3 A, 4 B
DSP UNIT
CX041: +5V 1, GND 2, DISCB 3, DISCA 4
CX031: +5V 1, GND 2, TABLE 3
CX042: MOTOR+ 1, MOTOR- 2, A 3, B 4
CX101: -HB 1, F1 2, F2 3, GND 4, GND 5, +5V 6, +12V 7, RXD 8, TXD 9, PNLRST 10
JK603 MAIN ANALOG OUT
JK604 MONITORAIN ANALOG OUT
JK603 MAIN DIGITAL OUT
JK604 MONITOR DIGITAL OUT
JK602 MAIN FADER IN
JK602 MONITOR FADER IN
JK601 X'EFFECT IN
JK601 X'EFFECT OUT
CX401: 1 RES, 2 GND, 3 D7, 4 D8, 5 D6, 6 D9, 7 D5, 8 D10, 9 D4, 10 D11, 11 D3, 12 D12, 13 D2, 14 D13, 15 D1, 16 D14, 17 D0, 18 D15, 19 GND, 20 NC, 21 DMAREQ, 22 GND, 23 DIOW, 24 GND, 25 DIOR, 26 GND, 27 IORDY, 28 NC, 29 DMAACK, 30 GND, 31 INTRQ, 32 IOCS16, 33 DA1, 34 NC, 35 DA0, 36 DA2, 37 CS0, 38 CS1, 39 NC, 40 GND
CX111: 1 -HB, 2 F1, 3 F2, 4 +12V D, 5 -12V, 6 GND, 7 +12V, 8 +5V, 9 +5V, 10 GND, 11 GND
CX561: RES 1, GND 2, D7 3, D8 4, D6 5, D9 6, D5 7, D10 8, D4 9, D11 10, D3 11, D12 12, D2 13, D13 14, D1 15, D14 16, D0 17, D15 18, GND 19, NC 20, DMAREQ 21, GND 22, DIOW 23, GND 24, DIOR 25, GND 26, IORDY 27, NC 28, DMAACK 29, GND 30, INTRQ 31, IOCS16 32, DA1 33, NC 34, DA0 35, DA2 36, CS0 37, CS1 38, NC 39, GND 40
+12V 1, GND 2, GND 3, +5V 4
CX911: -HB 1, F1 2, F2 3, +12V D 4, -12V 5, GND 6, +12V 7, +5V 8, +5V 9, GND 10, GND 11
CX941: 1 +12V, 2 GND, 3 GND, 4 +5V
POWER_UNIT
CX021: 1 AC, 2
MECH UNIT
GU-3414
DRIVE UNIT
CX031(FG5000): 1 OUTSW, 2 SLOT IN DET, 3 GND
CX042(FG5000): 1 LED POEWR1, 2 INSW, 3 GND, 4 LED POEWR2
CX021(FG5000): 1 LOAD-, 2 LOAD+
CX051(FG9000): 1 LOAD-, 2 LOAD+, 3 OUTSW, 4 GND, 5 INSW
CX241: 1 TRACK-, 2 TRACK+, 3 FOCUS-, 4 FOCUS+, 5 DVDMDIA, 6 RFVCC, 7, 8 GND, 9, 10, 11, 12 GND, 13 CDMDIA, 14 GND, 15, 16 C, 17 B, 18 A, 19 D, 20 F, 21 E, 22 RFVCC, 23 VC21, 24 GND
CX151: 1 FM+, 2 FM-, 3 SW, 4 SW, 5 H+, 6 H-, 7 H3-, 8 H3+, 9 H2-, 10 H2+, 11 H1-, 12 H1+, 13 A1, 14 A2, 15 A3
OUTSW 1, SLOT IN DET 2, GND 3
LED POEWR1 1, INSW 2, GND 3, LED POEWR2 4
LOAD- 1, LOAD+ 2
LOAD- 1, LOAD+ 2, OUTSW 3, GND 4, INSW 5
TRACK- 1, TRACK+ 2, FOCUS- 3, FOCUS+ 4, DVDMDIA 5, RFVCC 6, 7, GND 8, 9, 10, 11, GND 12, CDMDIA 13, GND 14, 15, C 16, B 17, A 18, D 19, F 20, E 21, RFVCC 22, VC21 23, GND 24
FM+ 1, FM- 2, SW 3, SW 4, H+ 5, H- 6, H3- 7, H3+ 8, H2- 9, H2+ 10, H1- 11, H1+ 12, A1 13, A2 14, A3 15

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts marked with this symbol ⚠▨ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE

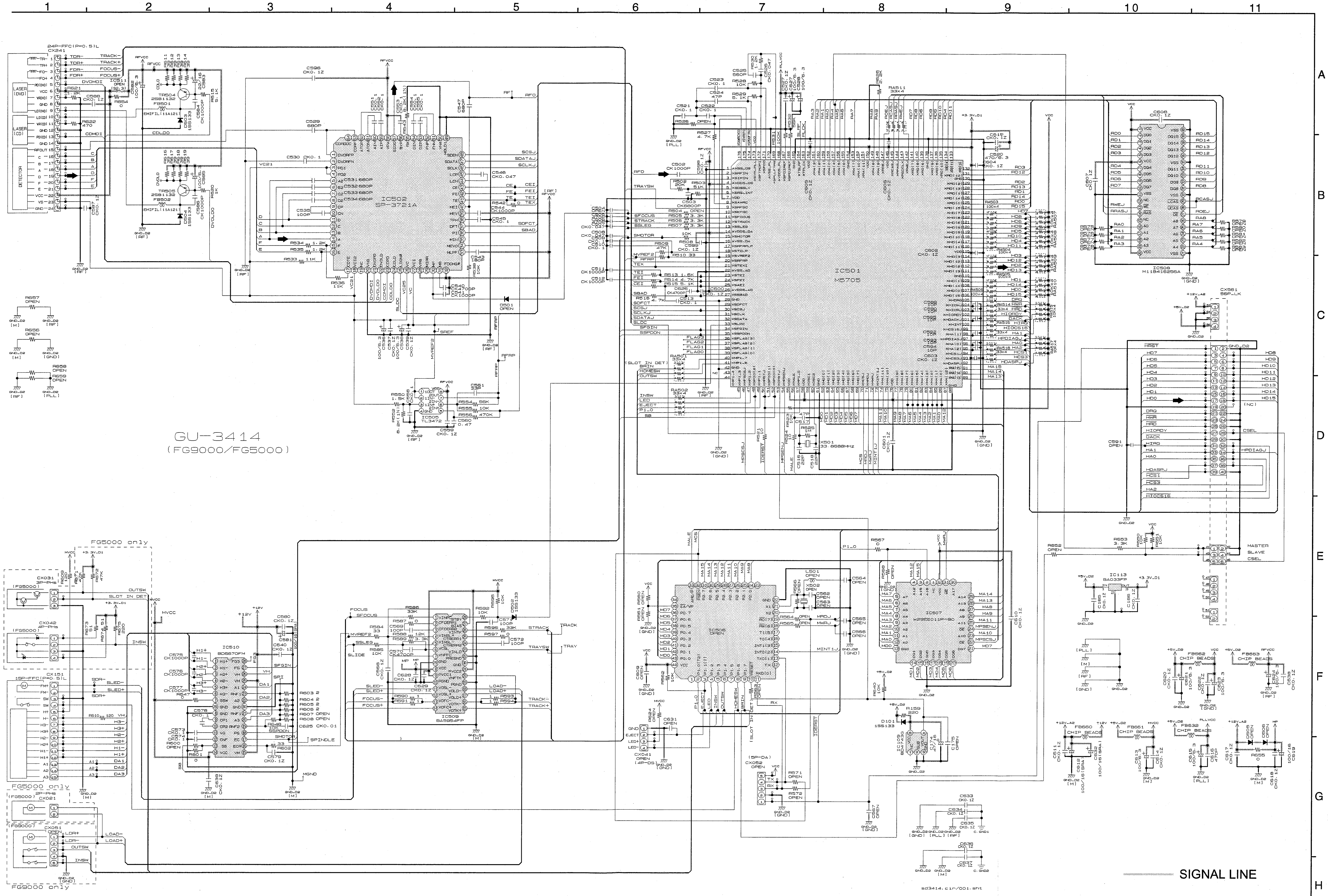
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

配線図について

⚠▨印の部品は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。

注）
1. 指定なき抵抗値はΩ、kはkΩ、MはMΩを示す。
2. 指定なきコンデンサーの値はμF、pはpFを示す。
3. 各部の電圧は無信号の値を示す。
4. この配線図は基本配線図です。改良等のため変更することがありますのでご了承ください。

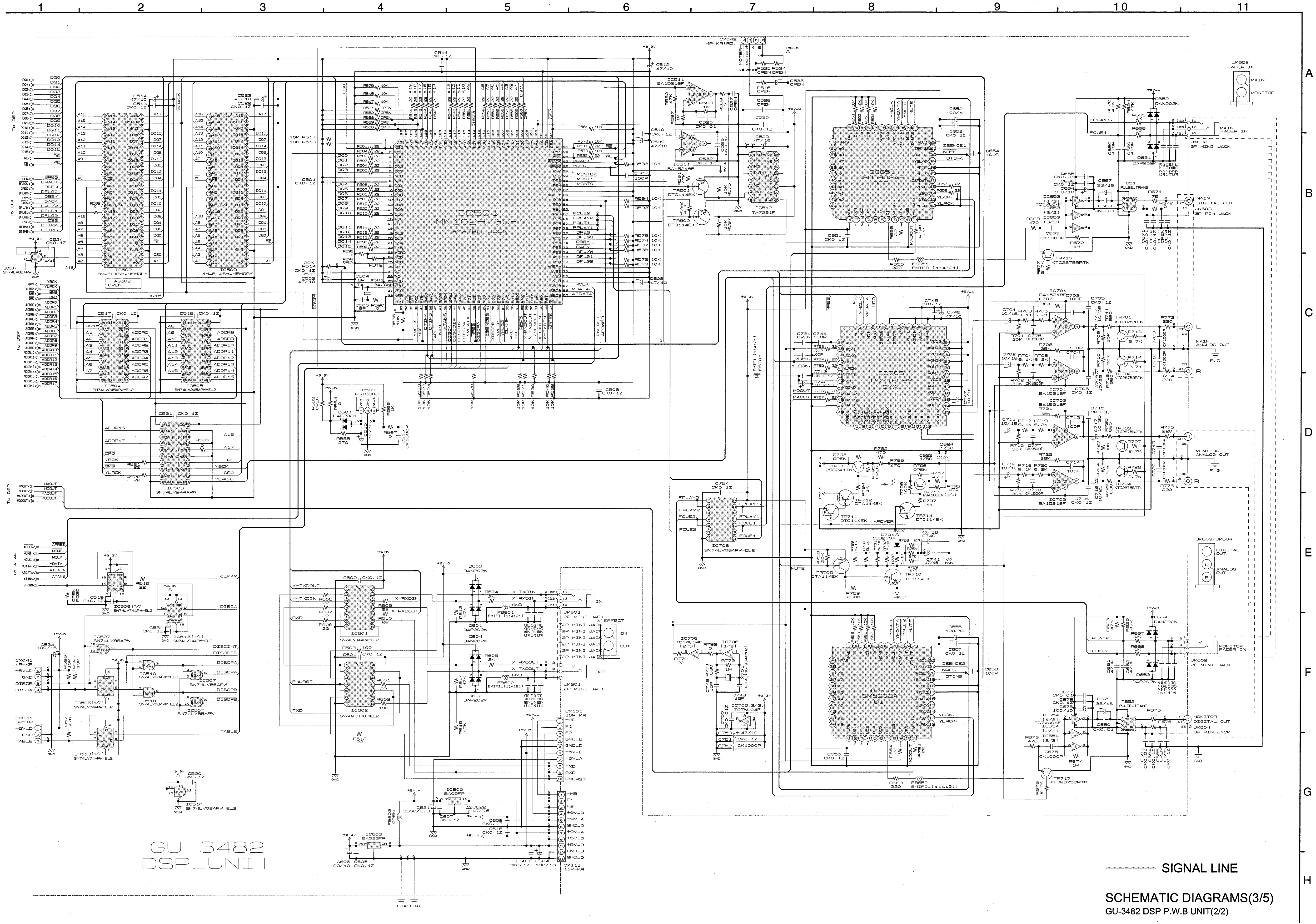
SCHEMATIC DIAGRAMS (1/5)


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
24P-FFC(P=0.5)L
CX241
LASER (DVD)
LASER (CD)
DETECTOR
IC502
SP-3721A
IC501
M5705
IC505
TL3472
IC508
M11B416256A
IC506
OPEN
IC507
W29EE011P-90
IC509
BA5954FP
IC510
BD6670FM
IC113
BA033FP
CX561
56P-LK
X501
33.8688MHz
GU-3414
(FG9000/FG5000)
FG5000 only
FG9000 only
CX031
CX042
15P-FFC(P=0.5)L
CX151
CX021
CX051
CX041
CX052
MASTER
SLAVE
CSEL
SPINDLE
TRACK
TRAY
FOCUS
SLED
LOAD
SIGNAL LINE

SCHEMATIC DIAGRAMS(1/5)

GU-3414 CD-ROM P.W.B UNIT

SCHEMATIC DIAGRAMS (3/5)

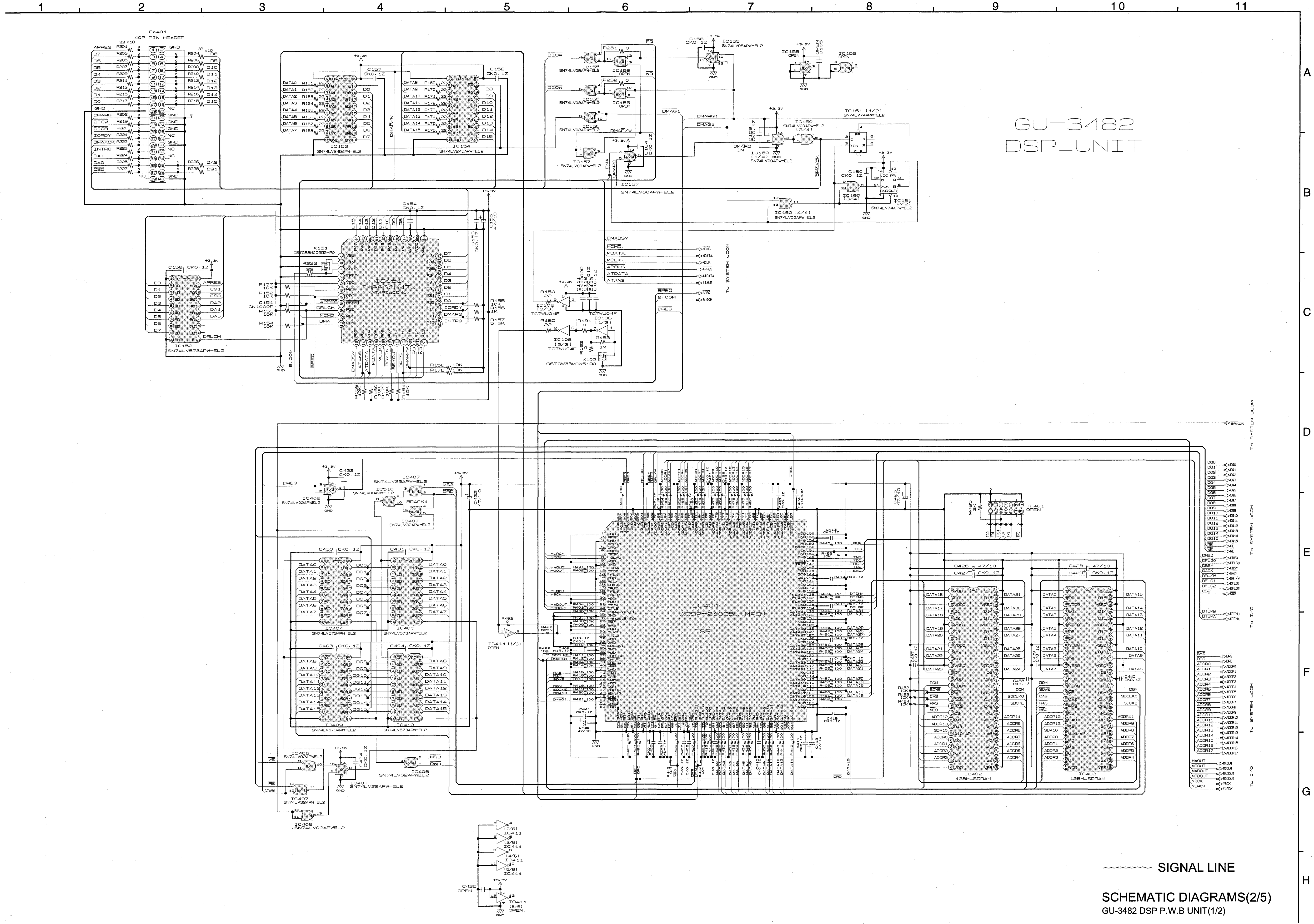

IC501
MN102H730F
SYSTEM uCON
IC502
8M_FLASH_MEMORY
IC503
4M_FLASH_MEMORY
IC504
SN74LV245APW-EL2
IC505
SN74LV245APW-EL2
IC508
SN74LV244APW
IC511
BA15218F
IC512
TA7291F
IC651
SM5902AF
DIT
IC652
SM5902AF
DIT
IC705
PCM1808Y
D/A
IC701
BA15218F
IC702
BA15218F
IC708
SN74LV08APW-EL2
IC601
SN74LV04APW-EL2
IC602
SN74AHCT08PWEL2
IC605
BA05FP
IC603
BA033FP
To DSP
To ATAP
JK602
FADER IN
MAIN
MONITOR
MAIN DIGITAL OUT
MAIN ANALOG OUT
MONITOR DIGITAL OUT
MONITOR ANALOG OUT
JK601
2P MINI JACK
EFFECT
IN
OUT
CX101
CX111
GU-3482
DSP_UNIT

SIGNAL LINE

SCHEMATIC DIAGRAMS(3/5)

GU-3482 DSP P.W.B UNIT(2/2)

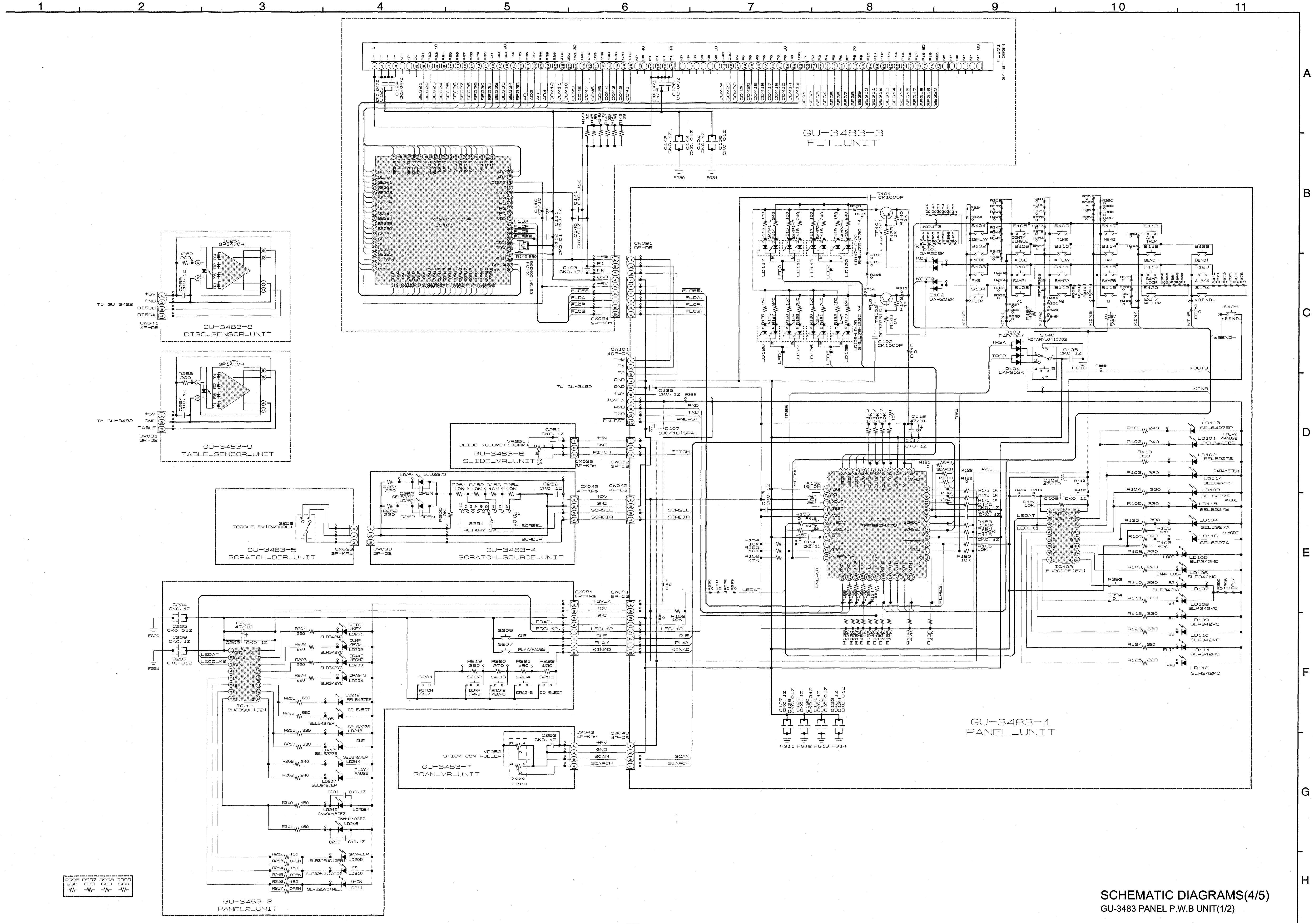
SCHEMATIC DIAGRAMS (2/5)


GU-3482
DSP_UNIT
CX401 40P PIN HEADER
IC151 TMP86CM47U ATAPIUCON1
IC152 SN74LV573APW-EL2
IC153 SN74LV245APW-EL2
IC154 SN74LV245APW-EL2
IC155 SN74LV08APW-EL2
IC157 SN74LV00APW-EL2
IC160 SN74LV00APW-EL2
IC161 SN74LV74APW-EL2
IC108 TC7WU04F
X151 CSTCE8M00G52-R0
X102 CSTCW33M0X51R0
To SYSTEM uCOM
IC401 ADSP-21065L(MP3) DSP
IC402 128M_SDRAM
IC403 128M_SDRAM
IC404 SN74LV574APW-EL2
IC405 SN74LV573APW-EL2
IC409 SN74LV573APW-EL2
IC410 SN74LV573APW-EL2
IC406 SN74LV02APWEL2
IC407 SN74LV32APW-EL2
IC510 SN74LV08APW-EL2
IC411
TP401 OPEN
To I/O
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H

SIGNAL LINE

SCHEMATIC DIAGRAMS(2/5)
GU-3482 DSP P.W.B UNIT(1/2)

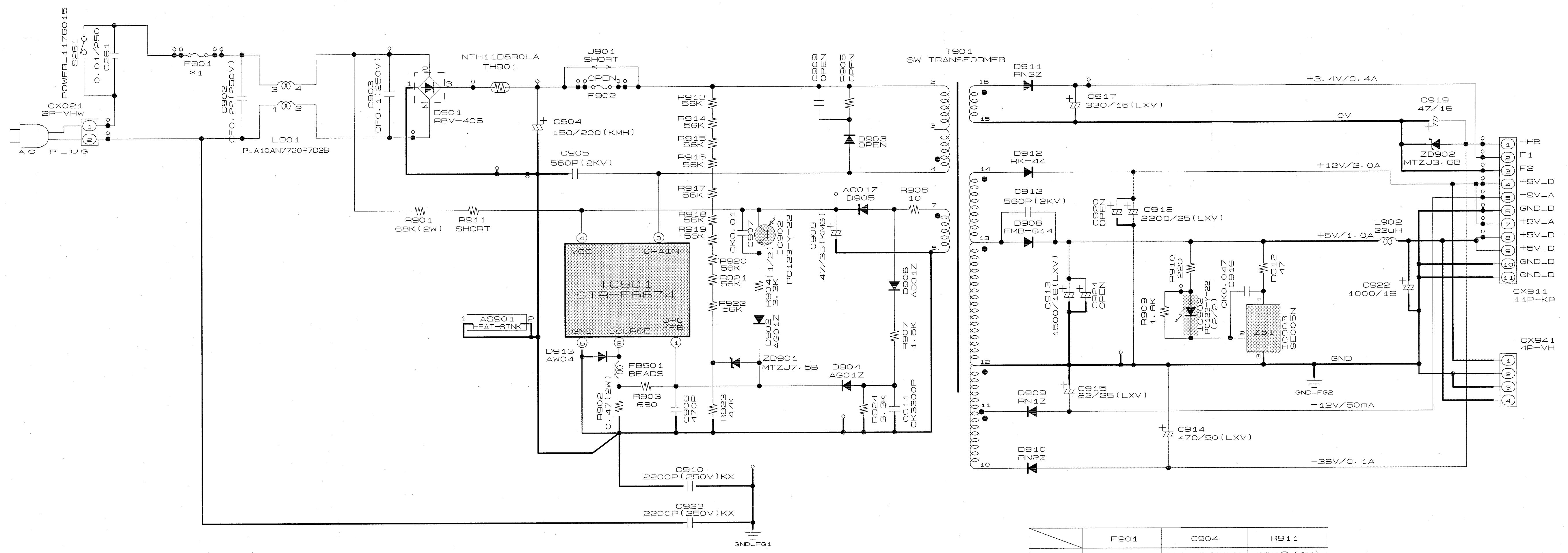
SCHEMATIC DIAGRAMS (4/5)


GU-3483-3
FLT_UNIT
FL101
24-ST-09GN
ML9207-01GP
IC101
GU-3483-8
DISC_SENSOR_UNIT
GU-3483-9
TABLE_SENSOR_UNIT
To GU-3482
GU-3483-6
SLIDE_VR_UNIT
SLIDE VOLUME(100MM)
GU-3483-5
SCRATCH_DIR_UNIT
TOGGLE SW(PADORU)
GU-3483-4
SCRATCH_SOURCE_UNIT
ROTARY SW
IC102
TMP86CM47U
IC103
BU2090F(E2)
IC201
BU2090F(E2)
GU-3483-2
PANEL2_UNIT
GU-3483-7
SCAN_VR_UNIT
STICK CONTROLLER
GU-3483-1
PANEL_UNIT
S140
ROTARY_0410002

SCHEMATIC DIAGRAMS(4/5)

GU-3483 PANEL P.W.B UNIT(1/2)

SCHEMATIC DIAGRAMS (5/5)


POWER_1176015
S261
0.01/250
C261
CX021
2P-VHw
AC PLUG
F901
*1
C902
CF0.22(250V)
L901
PLA10AN7720R7D2B
C903
CF0.1(250V)
D901
RBV-406
NTH11D8R0LA
TH901
J901
SHORT
OPEN
F902
C904
150/200(KMH)
C905
560P(2KV)
R901
68K(2W)
R911
SHORT
AS901
HEAT-SINK
IC901
STR-F6674
VCC
DRAIN
GND
SOURCE
OCP/FB
D913
AW04
FB901
BEADS
R902
0.47(2W)
R903
680
C906
470P
R913 56K
R914 56K
R915 56K
R916 56K
R917 56K
R918 56K
R919 56K
R920 56K
R921 56K
R922 56K
R923 47K
CK0.01
C907
IC902
PC123-Y-22
R904(1/2) 3.3K
D902
AG01Z
ZD901
MTZJ7.5B
D904
AG01Z
C909 OPEN
R905 OPEN
D903 OPEN
AG01Z
D905
R908
10
C908
47/35(KMG)
D906
AG01Z
R907
1.5K
R924
3.3K
C911
CK3300P
C910
2200P(250V)KX
C923
2200P(250V)KX
GND_FG1
T901
SW TRANSFORMER
D911
RN3Z
C917
330/16(LXV)
+3.4V/0.4A
0V
C919
47/16
ZD902
MTZJ3.6B
D912
RK-44
+12V/2.0A
C912
560P(2KV)
D908
FMB-G14
C920 OPEN
C918
2200/25(LXV)
+5V/1.0A
L902
22uH
C913
1500/16(LXV)
C921 OPEN
R910
220
R909
1.8K
IC902
PC123-Y-22
(2/2)
CK0.047
C916
R912
47
Z51
IC903
SE005N
C922
1000/16
GND
GND_FG2
D909
RN1Z
C915
82/25(LXV)
-12V/50mA
C914
470/50(LXV)
D910
RN2Z
-36V/0.1A
-HB
F1
F2
+9V_D
-9V_A
GND_D
+9V_A
+5V_D
+5V_D
GND_D
GND_D
CX911
11P-KR
CX941
4P-VH

	F901	C904	R911
E2	T2AL 250V	220 µF/400V	68KΩ (2W)
E3	T1AL 250V	220 µF/200V	SHORT

SCHEMATIC DIAGRAMS(5/5)
GU-3483 PANEL P.W.B UNIT(2/2)